| BIBLIOGRAPHIC DATA SHEET | 1. CONTROL NUMBER PN-AAJ-520 | 2. SUBJECT CLASSIFICATION (695) AF25-1400-0000 |
|---|---|---|

3. TITLE AND SUBTITLE (240)

Cross-inoculation patterns of legumes and isolates of rhizobium, vol. 1

4. PERSONAL AUTHORS (100)

Alexander, M.; Lieberman, M. T.

5. CORPORATE AUTHORS (101)

Cornell Univ. Dept. of Agronomy

| 6. DOCUMENT DATE (110) | 7. NUMBER OF PAGES (120) | 8. ARC NUMBER (170) |
|---|---|---|
| 1981 | 200p. | 633.3.A377 |

9. REFERENCE ORGANIZATION (130)

Cornell

10. SUPPLEMENTARY NOTES (500)

(Vol. II, 181p.: PN-AAJ-521)

11. ABSTRACT (950)

12. DESCRIPTORS (920)

Rhizobium
Legume crops
Leguminous plants
Inoculation
Nitrogen fixation
Tables

13. PROJECT NUMBER (150)

14. CONTRACT NO.(140)

AID/csd-2834

15. CONTRACT TYPE (160)

16. TYPE OF DOCUMENT (160)

AID 590-7 (10-79)

633.3
A377
v.1

PN-AAX

# CROSS-INOCULATION PATTERNS OF LEGUMES AND ISOLATES OF RHIZOBIUM

## VOLUME I

A. OVERVIEW

B. LITERATURE CITED

C. TABLES: SUCCESSFUL CROSS-INFECTION TRIALS

REPORT TO U. S. AGENCY FOR INTERNATIONAL DEVELOPMENT
CONTRACT NUMBER AID/CSD 2834
MARCH 1981

M. ALEXANDER AND M. T. LIEBERMAN
DEPARTMENT OF AGRONOMY, CORNELL UNIVERSITY
ITHACA, NY 14853

# CROSS-INOCULATION PATTERNS OF LEGUMES AND ISOLATES OF RHIZOBIUM

M. Alexander and M. T. Lieberman

Department of Agronomy, Cornell University

Ithaca, NY 14853

This state-of-the-art (SOTA) document was prepared to serve four purposes: (1) to summarize published information collected during more than half a century on the capacity of Rhizobium strains to nodulate any legume, whether the plant is of current agricultural importance or not; (2) to evaluate the information thus collected to ascertain whether taxonomic generalizations were possible so that the search for Rhizobium strains for legumes that are being considered for exploitation would be facilitated; (3) to enable predictions to be made on the likelihood that rhizobia known to exist in a given soil would nodulate a newly introduced legume; and (4) to establish the need for systematic studies to obtain more complete information.

The work that had to be completed to accomplish the first purpose was extensive, and although some published reports may have been overlooked, the number of reports missed is probably small. The number of tables and their many entries attest to the wealth of literature. Nevertheless, the very extensiveness of this survey revealed clearly that few new generalizations are now possible because the literature is, in fact, too sparse for the establishment of generalizations. Given that there are some 700 genera of legumes, a simple assessment of the ability of rhizobia derived from each genus to nodulate every other genus would require 244,650 tests. The number of separate evaluations involving cross testing among all of the more

than 10,000 species would be over 50 million. A more sensible and feasible approach would involve advancing hypotheses concerning possible affinities and evaluating these hypotheses with the far fewer plant genera that would be necessary. Unfortunately, apart from studies involving strains of the currently named species of Rhizobium, this has rarely been done, particularly not in recent years.

In turning to the tables, it should be borne in mind that synonyms exist for many of the plant species or genera, and plant taxonomists often have applied names different from those listed. Comments on the taxonomy will be welcomed. Further, individual varieties, where mentioned in the original publication, have not been presented separately in the tables.

Two sets of tables have been prepared. The first contains information regarding positive, or successful, cross-infection studies. In many instances, investigators other than those cited in these positive tables conducted cross-inoculation studies involving the same Rhizobium-legume pairs shown as positive, but they found no cross-infections to result. These negative results can be found in the second set of tables. The reader should thus be cognizant that a positive cross infection tabulated here may represent either the rule or the exception; i.e., one must not assume that the tabulated positives depict all cases. Indeed, it is truly rare that, for a two-membered pair for which a positive has been recorded, tests with other rhizobia from nodules of the same plant species always gave the same results. Moreover, in some instances, cross infections involving a plant of one species and a Rhizobium from another species have been studied only once, so generalizations are not yet possible.

No attempt has been made to use this information for establishing a new Rhizobium classification. The reason for not making such an attempt at this

time is that too few tests have been made of the species not of current economic importance. The cross-inoculation groups that have led to the establishment of the six named species of Rhizobium, though not necessarily invalid, focus so clearly on economic legumes of present significance that extrapolation to the universe of legumes would be foolhardy. The lack of consistency in experimental conditions and reporting of results further complicates meaningful analysis. Nevertheless, any affinities intimated by this survey can serve as the basis for the delineation of which possible plant-Rhizobium affinities should be evaluated in the future so that a more meaningful categorization of Rhizobium strains will ultimately be achieved.

In the tables, no distinction has been made as to whether the infections are effective or ineffective in nitrogen fixation. The tables are arranged alphabetically by plant genus, except that all positive cross inoculations are given before the negative cross inoculations. If more than one test species is included in a particular table, it is because they are of the same genus. There is usually some similarity in the cross infections observed among the species in a particular table; i.e., the same plants or Rhizobium isolates have been used. This, of course, does not indicate a definite relationship between these species because, in many cases, few crosses have been performed with these species.

In the tables, the superscript on each entry identifies the direction(s) in which the indicated cross-infection experiment was conducted between the test species (shown in column 1 of each table) and the corresponding table entry; i.e., which species represents the source of Rhizobium and which represents the host legume. The following table contains the key to the superscripts:

| Successful cross infections (positive tables) | Unsuccessful cross infections (negative tables) | Contribution of the test species |
|---|---|---|
| a | d | Both source of *Rhizobium* and host legume plant |
| b | e | Source of *Rhizobium* |
| c | f | Host legume |

In assigning superscripts, tests which have been conducted in both directions take precedence over unidirectional tests. A two-directional superscript (a,d) has also been assigned when one-way studies by different experimenters have complemented each other. The superscripts b and e or c and f indicate that, in all references cited for the given cross, the test species has only been used as a source of *Rhizobium* or as the host legume, respectively.

A master chart giving all the results for all the genera herein presented was prepared. For this purpose, the number of positive and negative crosses reported in the literature for a particular pair of genera was determined by counting the number of times the particular cross was reported (either positive or negative). This was only done at the genus level. In the example

| | | |
|---|---|---|
| *Caragana arborescens* | *Anthyllis vulneraria* | (1 report) |
| | *Lespedeza stipulacea* | (1 report) |
| | *Lotus corniculatus* | (3 reports) |
| | *Phaseolus vulgaris* | (1 report) |
| *Caragana chamlagu* | *Phaseolus angularis* | (1 report) |
| | *Phaseolus vulgaris* | (1 report) |

the master table would contain 1,1,3 and 3 (positives or negatives) for *Caragana* versus *Anthyllis*, *Lespedeza* and *Phaseolus*, respectively. The final

master chart contained the potential for tests of crosses of more than 120 genera by 120 genera, to give a potential total of more than 7,000 entries. However, the number of actual entries was indeed small, and the nodulation tests conducted gave entries so scattered that no general patterns were evident despite extensive visual examination of the data. An attempt will be made to assess whether computer analysis of these scattered data and irregular patterns of testing can establish whether affinities exist. The results of this analysis will be presented subsequently.

## LITERATURE CITED


1. Abdel-Ghaffar, A. S., and H. L. Jenson. 1966. The rhizobia of Lupinus densiflorus Benth., with some remarks on the classification of root nodule bacteria. Arch. Mikrobiol. 54:393-405.

2. Allen, O. N., and E. K. Allen. 1936. Root nodule bacteria of some tropical leguminous plants. I, Cross-inoculation studies with Vigna sinensis L. Soil Science 42:61-77.

3. Allen, O. N., and E. K. Allen. 1939. Root nodule bacteria and some tropical leguminous plants. II, Cross-inoculatio tests within the cowpea group. Soil Science 47:63-76.

4. Appleman, M. D., and O. H. Sears. 1942. Further evidence of interchangeability among groups of Rhizobium leguminosarum. Proc. Soil Sci. Soc. Amer. 7:263-264.

5. Appleman, M. D., and O. H. Sears. 1946. Studies on lyophiled cultures: Lyophile storage of cultures of Rhizobium leguminosarum. J. Bacteriol. 52:209-211.

6. Baldwin, I. L., and A. W. Hofer. 1932. Variations in the infective power among strains of Rhizobia. J. Bacteriol. 23:66-67.

7. Barua, M., and P. N. Bhaduri. 1967. Rhizobial relationship of the genus Phaseolus. I. Cross-inoculation performance of different species to R. phaseoli, R. japonicum, and the cowpea organism. Can. J. Microbiol. 13:910-913.

8. Bjalva, G. 1963. The effectiveness of nodule bacteria. Plant Soil 18:70-76.

9. Bowen, G. D. 1959. Specificity and nitrogen fixation in the rhizobium symbiosis of Centrosema pubescens Benth. Qsld. J. Agric. Sci. 16:267-281.

10. Brockwell, J., A. Diatloff, A. Grassia, and A. C. Robinson. 1975. Use of wild soybean (Glycine usssuriensis Regel and Maack) as a test plant in dilution-nodulation frequency tests for counting Rhizobium japonicum. Soil Biol. Biochem. 7:305-311.

11. Brockwell, J., and F. W. Hely. 1961. Symbiotic characteristics of Rhizobium meliloti from the brown acid soils of the Macquarie region of New South Wales. Aust. J. Agric. Res. 12:630-643.

12. Brockwell, J., and F. W. Hely. 1966. Symbiotic characteristics of Rhizobium meliloti: an appraisal of the systematic treatment of nodulation and nitrogen fixation interactions between hosts and Rhizobia of diverse origins. Aust. J. Agric. Res. 17:885-899.

13. Broughton, W. J., A. Ikram, and S. Padmanathon. 1975. Rhizobia in tropical legumes. II, Efficacy of different isolates on Centrosema pubescens Benth. Malaysian Agricultural Research 4:181-191.

14. Burke, V., and N. J. Hohl. 1930. Cross inoculation with Rhizobium radicicolum. Soil Science 30:407-411.

15. Burrill, T. J., and R. Hansen. 1917. Is symbiosis possible between legume bacteria and non-leguminous plants? Ill. Agr. Expt. Sta. Bull. 202.

16. Burton, J. C. 1952. Host specificity among certain plants in the cowpea cross-inoculation group. Proc. Soil Sci. Soc. Amer. 16:356-358.

17. Burton, J. C., and L. W. Erdman. 1940. A division of the alfalfa cross-inoculation group correlating efficiency in nitrogen fixation with source of Rhizobium meliloti. J. Bacteriol. 39:98-99.

18. Burton, J. C., and L. W. Erdman. 1940. A division of the alfalfa cross-inoculation group correlating efficiency in nitrogen fixation with source of Rhizobium meliloti. J. Amer. Soc. Agron. 32:439-450.

19. Burton, J. C., and P. W. Wilson. 1939. Host plant specificity among the Medicago in association with root-nodule bacteria. Soil Science 47:294-303.

20. Bushnell, O. A., and W. B. Sarles. 1937. Studies on the the root-nodule bacteria of wild leguminous plants in Wisconsin. Soil Science 44:409-423.

21. Busko, J. 1959. Symbiotic effectiveness and some physiological properties of the nodule bacteria of Lotus and Anthyllis. Acta Microbiol. Polon. 8:303-308.

22. Campelo, A. B., and J. Dobereiner. 1969. Cross inoculation of some forest legume species. Pesq. Agropec. Brasil., Ser. Agron. 4:67-72

23. Carroll, W. R. 1934. A study of Rhizobium species in relation to nodule formation on the roots of Florida legumes. I. Soil Science 37:117-135.

24. Carroll, W. R. 1934. A study of Rhizobium species in relation to nodule formation on the roots of Florida legumes. II. Soil Science 37:227-241.

25. Chen, H. K., and M. K. Shu. 1944. Note on the root-nodule bacteria of Astragalus sinicus L. Soil Science 58:291-293.

26. Conklin, M. E. 1936. Studies of the root nodule organisms of certain wild legumes. Soil Science 41:167-185.

27. Dadarwal, K. R., C. S. Singh, and N. S. Subba Rao. 1974. Nodulation and serological studies of rhizobia from six species of Arachis. Plant Soil 40:535-544.

28. Date, R. A., and D. O. Norris. 1979. Rhizobium screening of Stylosanthes species for effectiveness in nitrogen fixation. Aust. J. Agric. Res. 30:85-104.

29. Deschodt, C. C., and B. W. Strijdom. 1976. Effective nodulation of Aspalathus linearis ssp. linearis by rhizobia from other Aspalathus species. Phytophylactica 8:103-104.

30. Doku, E. V. 1969. Host specificity among five species in the cowpea cross-inoculation group. Plant Soil 30:126-128.

31. Dorosinskii, L. M., and N. M. Lazarera. 1968. Specificity of root-nodule bacteria of soy and lupine. Mikrobiologiya 37:115-121.

32. Elkan, G. H. 1971. The taxonomy of Rhizobium japonicum. In Lie, T. A. and E. G. Mulder, eds. Biological nitrogen fixation in natural and agricultural habitats. Nijhoff, Hague. pp. 85-104.

33. Elmes, R. P. T. 1976. Cross-inoculation relationships of Psophocarpus tetragonolobus and its Rhizobium with other legumes and rhizobia. Papua New Guinea Agric. J. 27:53-57.

34. Erdman, L. W. 1948. Strains of Rhizobium effective on guar, Cyamopsis tetragonoloba. J. Amer. Soc. Agron. 40:364-369.

35. Galli, F. 1958. Cross inoculations with root nodule bacteria of tropical leguminous plants. Rev. Agric. 33:139-150.

36. Gaur, Y. D., A. N. Sen, and N. S. Subba Rao. 1974. Promiscuity in groundnut Rhizobium association. Zent. Bakt., II 29:369-372.

37. Graham, P. H., and C. A. Parker. 1964. Diagnostic features in characterization of the root-nodule bacteria of legumes. Plant Soil. 20:383-396.

38. Gregory, K. F., and O. N. Allen. 1953. Physiological variations and host plant specificities of rhizobia isolated from Caragana arborescens L. Canad. J. Botany 31:730-738.

39. Guzman, I., and J. Dobereiner. 1969. Effectiveness and efficiency in the symbiosis of four cross-inoculated tropical legumes. Revista Latinoamer. Microbiol. 11:137-140.

40. Habish, H. A., and Sh. M. Khairi. 1970. Nodulation of legumes in the Sudan. II. Rhizobium strains and cross inoculations of Acacia spp. Exp. Agr. 6:171-176.

41. Helz, G. E., I. L. Baldwin, and E. B. Fred. 1927. Strain variations and host specificity of the root-nodule bacteria of the pea group. J. Agric. Res. 35:1039-1055.

42. Hepper, C. M., and L. Lee. 1979. Nodulation of Trifolium subterraneum by Rhizobium leguminosarum. Plant and Soil 51:441-445.

43. Ishizawa, S. 1954. Studies on the root-nodule bacteria and leguminous plants. II. The relationship between nodule bacteria and leguminous plants. Part 1. From the view of nodule production. a. Cross-inoculation test. J. Sci. Soil Manure, Tokyo 24:297-302.

44. Ishizawa, S. 1954. Studies on the root-nodule bacteria and leguminous plants. II. Relationship between nodule bacteria and leguminous plants. Part 1. From the view of nodule production. b. Soybean group and Cowpea group. J. Sci. Soil Manure 24:303-306.

45. Ishizawa, S. 1972. Root-nodule bacteria of tropical legumes. Japan Agric. Res. Quarterly 6:199-211.

46. Ismailcelebioglu, Y. N. and M. Alexander. 1979. Cross-inoculation patterns of Rhizobium strains. Rhizobium Newsletter 24:19-22.

47. Jensen, H. L. 1963. Relations de la plante hote avec les Rhizobium du group Lotus-Anthyllis. Ann. Inst. Pasteur. 105:232-236.

48. Jensen, H. L. 1967. Mutual Host Plant Relationships in Two Groups of legume root nodule bacteria (Rhizobium spp.) Arch. Mikrobiol. 59:174-179.

49. Joshi, N. V. 1920. Studies on the root nodule organism of the Leguminous plants. Memoirs Dept. Agric. India, Bacteriol. Series 1:247-276.

50. Kleczkowska, J., P. S. Nutman, and G. Bond. 1944. Note on the ability of certain strains of Rhizobia from peas and clover to infect each other's host plants. J. Bacteriol. 48:673-675.

51. Koch, G. P., and J. R. Butler. 1918. Cross-inoculation of legumes. Soil Science 6:397-403.

52. Lange, R. T. 1962. Susceptibility of indigenous South-West Australian legumes to infection by Rhizobium. Plant Soil 17:134-136.

53. Lazareva, N. M., and L. M. Dorosinskii. 1969. Specificity of the nodule bacteria of soya and lupine. Mikrobiologiya 38:1075-1079.

54. Leonard, L. T. 1923. Nodule-production kinship between the soybean and the cowpea. Soil Science 15:277-283.

55. Lopes, E. S., L. A. C. Lovadini, S. Miyasaka, T. Igue, and A. R. Giardini. 1974. Selecao de estirpes de Rhizobium spp. para amendoim (Arachis hypogaea L.) e galaxia (Gialactia striata (Jacq.) urban). Bragantia 33:cv-cx.

56. Mannetje, L. T. 1969. Rhizobium affinities and phenetic relationships within the genus Stylosanthes. Aust. J. Bot. 17:553-564.

57. McNight, T. 1949. Efficiency of isolates of Rhizobium in the cowpea group with proposed additions to this group. Queensland J. Agric. Sci. 6:61-76.

58. Norris, D. O. 1958. A red strain of Rhizobium from Lotononis bainseii Baker. Aust. J. Agric. Res. 9:629-632.

59. Oblisami, G. 1974. Studies on the Rhizobium and nodulation pattern in a forage legume, Clitoria ternatea Linn. Proc. Ind. Nat. Sci. Acad., B, Biol. Sci. 40:618-623.

60. Posades, S. S. 1941. A study of root-nodule bacteria of certain leguminous plants. Phillip. Agricat. 30:215-226.

61. Raju, M. S. 1936. Studies on the bacterial-plant groups of cowpea, cicer, and dhaincha. I. Zentbl. Bakt. (etc.) 2 Abt., 94:249-262.

62. Raju, M. S. 1936. Studies on the bacterial-plant groups of cowpea, cicer, and dhaincha. II. Zentbl. Bakt. (etc.) 2 Abt., 94:337-348.

63. Rangaswami, G., and G. Oblisami. 1962. Studies on some legume root nodule bacteria. J. Indian Soc. Soil Sci. 10:175-186.

64. Richmond, T. E. 1926. The nodule organism of the cowpea group. J. Amer. Soc. Agron. 18:411-414.

65. Ruf, E. W., and W. B. Sarles. 1937. The infective ability of Rhizobia of the pea-vetch cross-inoculation group. J. Bacteriol. 34:135-136.

66. Sanogho, S. T., A. Sasson, and J. Renaut. 1978. Contribution a l'etude des Rhizobium de quelques especes de legumineuses spontanees de la region de Bamako (Mali). Rev. d'Ecol. Biol. Sol. 15:21-38.

67. Sears, O. H., and W. R. Carroll. 1927. Cross inoculation with cowpea and soybean nodule bacteria. Soil Science 24:413-419.

68. Sears, O. H., and F. M. Clark. 1930. Non-reciprocal cross-inoculation of legume nodule bacteria. Soil Science 30:237-242.

69. Simon, J. 1914. Uber die Verwandtschaftsverhaltnisse der Leguminosen-Wurzel bakterien. Centbk. Bakt., II, 41:470-479.

70. Stevens, J. W. 1925. A study of various strains of Bacillus radicicola from nodules of alfalfa and sweet clover. Soil Science 20:45-62.

71. Taha, S. M., S. A. Z. Mahmoud, and S. H. Salem. Differentiation of root-nodule bacteria. In H. Iizuka and T. Hasegawa, ed., Culture collections of microorganisms. University Park Press, Baltimore. 1970. pp.523-539.

72. Tracey, S. M., and H. S. Coe. 1918. Velvet beans. U.S.D.A. Farmer's Bulletin no. 962.

73. Trinick, M. J. 1968. Nodulation of tropical legumes. I. Specificity in the Rhizobium symbiosis of Leucaena leucocephala. Expl. Agric. 4:243-253.

74. Trinick, M. J. 1973. Symbiosis between Rhizobium and the non-legume Trema aspera. Nature 244:459-460.

75. Univ. of Pretoria. Plant Physiol.Res. Inst. Report on Nuffield Foundation Grant. May 1954. (cited in Trinick, M. J., 1968)

76. Van Schreven, D. A. 1972. Note on the specificity of the rhizobia of crownvetch and sanfoin. Plant Soil 36:325-330.

77. Watanabe, I., and K. Tuzimura. 1961. Root nodule bacteria isolated from Trifolium lupinaster. (In Japanese) J. Sci. Soil Manure 31:451-454.

78. Whiting, A. L., E. B. Fred, and G. E. Helz. 1926. A study of the root-nodule bacteria of Wood's clover (Dalea alopecuroides) Soil Science 22:467-475.

79. Whiting, A. L., and R. Hansen. 1920. Cross-inoculation studies with the nodule bacteria of lima beans, navy beans, cowpeas and others of the cowpea group. Soil Science 10:291-300.

## CROSS-INFECTION TABLES

Tables 1-81: Successful (positive) cross-infection trials.

Tables 82-151: Unsuccessful (negative) cross-infection trials.

Test species represent either host legume or source of nodule from which test *Rhizobium* was isolated.

Table 152: Cross-infection studies with the non-legume *Trema aspera* being the host plant in all cases.

Table 1. Acacia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. acuminata | Arachis | A. hypogoea[b] (36) |
| A. albida | Acacia | A. albida[a] (40), A. arabica[b] (40), |
| | | A. ehrenbergina[b] (40), A. farnesiana[b] (40), |
| | | A. mellifera[a] (40), A. orfota[b] (40), |
| | | A. seyal[b] (40), A. sieberiana[b] (40) |
| | Vigna | V. sinensis[a] (40) |
| A. aneura | Arachis | A. hypogoea[b] (36) |
| A. arabica | Acacia | A. albida[c] (40), A. arabica[a] (40), |
| | | A. ehrenbergina[a] (40), A. farnesiana[c] (40), |
| | | A. mellifera[a] (40), A. orfota[a] (40), |
| | | A. polycantha[a] (40), A. senegal[c] (40) |
| | | A. seyal[a] (40), A. sieberiana[a] (40) |
| | Vigna | V. sinensis[a] (2, 40) |
| A. armata | Acacia | Acacia spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| A. auriculaeformis | Vigna | V. sinensis[b] (15) |
| A. baileyana | Vigna | V. sinensis[b] (15) |
| A. berlendeiri | Arachis | A. hypogoea[b] (36) |
| A. calcina | Arachis | A. hypogoea[b] (36) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. catechu | Vigna | V. sinensis[b] (2) |
| A. confusa | Vigna | A. sinensis[b] (2) |
| A. cunninghamii | Vigna | V. unguiculata[b] (57) |
| A. cupressiformis | Arachis | A. hypogoea[b] (36) |
| A. cyclopes | Arachis | A. hypogoea[b] (36) |
| A. decurrens | Vigna | V. sinensis[b] (2) |
| A. ehrenbergina | Acacia | A. albida[c] (40), A. arabica[a] (40), A. ehrenbergina[a] (40), A. farnesiana[a] (40), A. mellifera[a] (40), A. orfota[a] (40), A. polycantha[a] (40), A. senegal[a] (40), A. seyal[a] (40), A. sieberiana[b] (40) |
| | Vigna | V. sinensis[a] (40) |
| A. farnesiana | Acacia | A. albida[c] (40), A. arabica[b] (40), A. ehrenbergina[a] (40), A. farnesiana[a] (40), A. orfota[b] (40), A. polycantha[b] (40), A. senegal[b] (40), A. seyal[a] (40), A. sieberiana[b] (40) |
| | Arachis | A. hypogoea[b] (36) |
| | Leucana | L. leucocephala[a] (73) |
| | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (2, 40) |
| A. floribunda | Acacia | Acacia spp. (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. floribunda (cont.) | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | L. virginica[b] (15), Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| A. glaucescens | Vigna | V. sinensis[b] (15) |
| A. granitica | Vigna | V. unguiculata[b] (57) |
| A. gregii | Arachis | A. hypogoea[b] (36) |
| A. horrida | Vigna | V. sinensis[b] (2) |
| A. koa | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. koaia | Vigna | V. sinensis[b] (2) |
| A. ligulata | Arachis | A. hypogoea[b] (36) |
| A. linifolia | Acacia | Acacia spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| A. longifolia | Acacia | Acacia spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| A. macrantha | Vigna | V. sinensis[b] (2) |
| A. melanoxylon | Acacia | Acacia spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15, 54) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. mellifera | Acacia | A. albida[a] (40), A. arabica[a] (40), A. ehrenbergina[a] (40), A. mellifera[a] (40) A. orfota[c] (40), A. polycantha[a] (40), A. senegal[a] (40), A. seyal[a] (40), A. sieberiana[a] (40) |
| | Vigna | V. sinensis[b] (40) |
| A. orfota | Acacia | A. albida[c] (40), A. arabica[a] (40), A. ehrenbergina[a] (40), A. farnesiana[c] (40), A. mellifera[b] (40), A. orfota[a] (40), A. polycantha[c] (40), A. senegal[a] (40), A. seyal[a] (40), A. sieberiana[a] (40) |
| A. pendula | Arachis | A. hypogoea[b] (36) |
| A. podalyriaefolia | Vigna | V. unguiculata[b] (57) |
| A. polycantha | Acacia | A. arabica[a] (40), A. ehrenbergina[a] (40), A. farnesiana[c] (40), A. mellifera[a] (40), A. orfota[b] (40), A. polycantha[a] (40), A. senegal[c] (40), A. seyal[a] (40), A. sieberiana[a] (40) |
| A. richii | Vigna | V. sinensis[b] (2) |
| A. robusta | Vigna | V. sinensis[b] (2) |
| A. sclerosperma | Arachis | A. hypogoea[b] (36) |
| A. scorpioides | Vigna | V. sinensis[b] (2) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. semperflora | Acacia | Acacia spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Lespedeza | Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| A. senegal | Acacia | A. arabica[b] (40), A. ehrenbergina[a] (40), A. farnesiana[c] (40), A. mellifera[a] (40), A. orfota[a] (40), A. polycantha[b] (40), A. senegal[a] (40), A. seyal[a] (40), A. sieberiana[b] (40) |
| | Vigna | V. sinensis[a] (40) |
| A. seyal | Acacia | A. albida[c] (40), A. arabica[a] (40), A. ehrenbergina[a] (40), A. farnesiana[a] (40), A. mellifera[a] (40), A. orfota[a] (40), A. polycantha[a] (40), A. senegal[a] (40), A. seyal[a] (40), A. sieberiana[a] (40) |
| A. sieberiana | Acacia | A. albida[c] (40), A. arabica[a] (40), A. ehrenbergina[c] (40), A. farnesiana[c] (40), A. mellifera[a] (40), A. orfota[a] (40), A. polycantha[a] (40), A. senegal[c] (40), A. seyal[a] (40), A. sieberiana[a] (40) |

Table 1. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. sieberiana (cont.) | Arachis | A. hypogoea[b] (36) |
| | Vigna | V. sinensis[a] (40) |
| A. spadicigera | Vigna | V. sinensis[b] (2) |
| A. tortolis | Arachis | A. hypogoea[b] (36) |
| A. verticillata | Vigna | V. sinensis[b] (2) |
| Acacia spp. | Acacia | A. armata[c] (15), A. floribunda[c] (15), A. linifolia[c] (15), A. longifolia[c] (15), A. melanoxylon[c] (15), A. semperflora[c] (15) |

Table 2. Aeschynomene

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. indica | Crotalaria | C. retusa[b] (66) |
| | Lotononis | L. bainseii[c] (66) |
| | Mucuna | M. pruriens[b] (66) |
| | Sesbania | S. leptocarpa[b] (66) |
| | Vigna | V. racemosa[b] (66), V. sinensis[b] (66) |

Table 3. Albizzia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. acle | Vigna | V. sinensis[b] (2) |
| A. chinensis | Vigna | V. sinensis[b] (2) |
| A. katangensis | Vigna | V. sinensis[b] (2) |
| A. lebbek | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2) |
| | Vigna | V. sinensis[b] (2) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (45) |
| | Calopogonium | C. mucunoides[a] (43, 45) |
| | Centrosema | C. pubescens[a] (43, 45) |
| | Crotalaria | C. anagyroides[a] (43, 45), C. usaramoensis[a] (43, 45) |

Table 3. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. moluccana (cont.) | Desmodium | D. gyroides[a] (43, 45) |
| | Glycine | G. max[c] (43) |
| | Lupinus | L. luteus[c] (43) |
| | Mucuna | M. capitata[c] (43, 45) |
| | Phaseolus | P. angularis[b] (43) |
| | Tephrosia | T. maxima[a] (43, 45), T. noctiflora[a] (45) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (2, 43, 45) |
| A. odoratissima | Vigna | V. sinensis[b] (2) |
| A. procera | Vigna | V. sinensis[b] (2) |
| A. retusa | Vigna | V. sinensis[b] (2) |
| A. saponaria | Vigna | V. sinensis[b] (2) |
| A. stipulata | Phaseolus | P. lathyroides[b] (73) |

Table 4. Alysicarpus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. hamosus | Arachis | A. hypogoea[a] (36) |
| A. longifolius | Vigna | V. sinensis[b] (2) |
| A. rugosus | Crotalaria | C. retusa[b] (66) |
| | Desmodium | D. asperum[b] (66) |
| | Sesbania | S. leptocarpa[b] (66) |
| | Vigna | V. racemosa[b] (66), V. sinensis[b] (2, 66) |
| A. vaginalis | Arachis | A. hypogoea[b] (5), A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3, 16) |
| | Cassia | C. chamaecrista[b] (16), |
| | | C. leschenaultiana[b] (16) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3, 16), C. lanceolata[b] (16), |
| | | C. mucronata[b] (16), C. spectabilis[b] (3) |
| | Cyamopsis | C. tetragonoloba[b] (34) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[b] (16), |
| | | I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |

Table 4. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. vaginalis (cont.) | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lathyroides[b] (73), P. lunatus[b] (16) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3, 16) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[b] (2, 3, 16, 73) |

Table 5. Amphicarpa

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. bracteata | Baptisia | B. tinctoria[b] (26) |
| | Genista | G. tinctoria[b] (26) |
| | Glycine | G. hispida[b] (20), G. max[b] (26) |
| | Vigna | V. sinensis[b] (20, 26) |
| A. monoica | Amphicarpa | A. monoica[a] (15) |

Table 6. Andira

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. inermis | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 7. Anthyllis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. vulneraria | Anthyllis | A. vulneraria[a] (21, 48, 69) |
| | Astragalus | A. glycyphyllus[c] (48) |
| | Caragana | C. arborescens[c] (48) |
| | Lotus | L. corniculatus[a] (21, 48), |
| | | L. uliginosus[a] (48, 69) |
| | Lupinus | Lupinus spp.[c] (48) |
| | Ononis | O. repens[c] (48) |
| | Ornithopus | O. sativus[b] (47, 48) |
| | Tetragonolobus | T. purpureus[a] (69) |

Table 8. Arachis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. doigoi | Stylosanthes | S. erecta[b] (56), S. guianensis[b] (56), S. humilis[b] (56), S. montevidensis[b] (56) S. mucronata[b] (56), S. viscosa[b] (56) |
| A. duranensis | Arachis | A. hypogoea[b] (27) |
| A. glaberata | Arachis | A. hypogoea[b] (27) |
| A. hypogoea | Arachis | A. duranensis[a] (36), A. hypogoea[a] (15, 30, 36, 45, 63, 69), A. prostrata[c] (27), A. villosa[c] (27) |
| | Acacia | A. acuminata[c] (36), A. aneura[c] (36), A. armata[c] (15), A. berlendeiri[c] (36), A. calcina[c] (36), A. cupressiformis[c] (36), A. cyclopes[c] (36), A. farnesiana[c] (36), A. floribunda[c] (15), A. fortolis[c] (36), A. gregii[c] (36), A. ligulata[c] (36), A. linifolia[c] (15), A. longifolia[c] (15), A. melanoxylon[c] (15), A. pendula[c] (36), A. sclerosperma[c] (36), A. semperflora[c] (15) A. sieberiana[c] (36) |
| | Albizzia | A. moluccana[a] (45) |
| | Alysicarpus | A. hamosus[a] (36), A. vaginalis[c] (1( |
| | Atylosia | A. scarabeoides[a] (36) |
| | Baptisia | B. alba[c] (16), B. tinctoria[c] (15) |

Table 8. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. hypogoea (cont.) | Cajanus | C. cajan[a] (36) |
| | Calopogonium | C. mucunoides[a] (45) |
| | Canavalia | C. gladiata[c] (36) |
| | Cassia | C. chamaecrista[a] (15, 16) |
| | Centrosema | C. pubescens[a] (13, 36, 45) |
| | Clitoria | C. ternatea[a] (36) |
| | Crotalaria | C. anagyroides[a] (45), C. burhia[c] (36), C. capensis[a] (36), C. juncea[a] (36), C. mucronata[c] (16), C. sagitallis[c] (16), C. spectabilis[c] (16), C. usaramoensis[a] (45) |
| | Cyamopsis | C. tetragonoloba[c] (36) |
| | Desmodium | D. canescens[c] (15), D. gangeticum[a] (36), D. gyroides[b] (45), D. illinoense[c] (15), D. sandwicense[a] (36), D. sessilifolium[c] (16), D. tortuosum[c] (16), D. uncinatum[c] (55), Desmodium spp.[b] (15) |
| | Dolichos | D. africanus[c] (55), D. biflorus[a] (36), D. lablab[a] (36) |
| | Erythrina | E. indica[c] (16) |
| | Genista | G. tinctoria[c] (15) |
| | Gliricidia | G. malococarpa[a] (36) |
| | Glycine | G. hispida[c] (23), G. javanica[a] (36), G. max[c] (30), G. wightii[c] (55) |

Table 8. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. hypogoea (cont.) | Indigofera | I. cordifolia[a] (36), I. linifolia[a] (36), I. oblongifolia[c] (36), I. sumatrana[a] (36), I. tenuis[b] (36) |
| | Lespedeza | L. striata[c] (15), L. virginica[a] (15), Lespedeza spp.[a] (15, 23) |
| | Lupinus | L. luteus[c] (61) |
| | Mucuna | M. utilis[c] (15, 23) |
| | Phaseolus | P. aconitifolius[a] (36, 61), P. atropurpurens[a] (36), P. aureus[a] (36), P. lathyroides[b] (73), P. lunatus[a] (30, 79), P. mungo[a] (36), P. trilobus[a] (36) |
| | Prosopis | P. chlensis[c] (36), P. cineraria[c] (36), P. juliflora[c] (36) |
| | Psophocarpos | P. tetragonolobus[a] (36) |
| | Pueraria | P. phaseoloides[a] (36) |
| | Rhyncosia | R. minima[a] (36) |
| | Sesbania | S. leptocarpa[b] (66) |
| | Stylosanthes | S. gracilis[c] (36), S. guianensis[b] (56), S. montevidensis[b] (56), S. mucronata[b] (56) |
| | Tephrosia | T. falciformis[a] (36), T. maxima[a] (45), T. noctiflora[a] (45), T. purpurea[a] (36), T. villosa[a] (36) |

Table 8. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. hypogoea (cont.) | Teramnus | T. labialus[c] (36) |
| | Vigna | V. sesquipedalis[c] (36), V. sinensis[a] (15, 30, 36, 45, 73), V. unguiculata[b] (57), |
| | Voandzeia | V. subterranea[a] (30) |
| A. koa | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |

Table 8. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. koa | Pongamia | P. pinnata[c] (3) |
| (cont.) | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), |
| | | T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[c] (3) |
| A. marginata | Arachis | A. hypogoea[b] (27) |
| | Stylosanthes | S. guianensis[b] (56), S. humilis[b] (56), |
| | | S. montevidensis[b] (56), S. mucronata[b] (56) |
| A. prostrata | Arachis | A. hypogoea[b] (27) |
| | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28, 56), |
| | | S. fructicosa[b] (28), S. guianensis[b] (28, 56), |
| | | S. hamata[b] (28, 56), S. humilis[b] (28, 56), |
| | | S. montevidensis[b] (56), S. mucronata[b] (56), |
| | | S. scabra[b] (28), S. subsericea[b] (28), |
| | | S. viscosa[b] (28, 56) |
| A. villosa | Arachis | A. hypogoea[b] (27) |

Table 9. Aspalathus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. biflora | Aspalathus | A. linearis[b] (29) |
| A. cordata | Aspalathus | A. linearis[b] (29) |
| A. divaricata | Aspalathus | A. linearis[b] (29) |
| A. linearis | Aspalathus | A. biflora[c] (29), A. cordata[c] (29), |
| | | A. divaricata[c] (29), A. lispida[c] (29), |
| | Rafnia | Rafnia spp.[c] (29) |
| A. lispida | Aspalathus | A. linearis[b] (29) |

Table 10. Astragalus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| A. glycyphyllus | Astragalus | A. glycyphyllus[a] (48) |
| | Anthyllis | A. vulneraria[b] (48) |
| | Caragana | C. arborescens[c] (48) |
| | Lotus | L. corniculatus[a] (48), |
| | | L. uliginosus[a] (48) |
| | Lupinus | Lupinus spp.[c] (48) |
| | Ononis | O. repens[c] (48) |
| | Ornithopus | O. sativus[b] (48) |
| A. reflexistipulatus | Astragalus | A. sinicus[c] (43) |
| A. sinicus | Astragalus | A. reflexistipulatus[b] (43), |
| | | A. sinicus[a] (25, 45) |
| | Dalea | Dalea spp.[c] (45) |
| | Desmodium | D. heterophyllum[c] (25) |
| | Vigna | V. sinensis[c] (45) |

Table 11. Baptisia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| B. alba | Arachis | A. hypogoea[b] (16) |
| | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), C. mucronata[b] (16) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[b] (16) |
| B. australis | Baptisia | B. tinctoria[c] (26) |
| B. tinctoria | Baptisia | B. australis[b] (26) |
| | Arachis | A. hypogoea[b] (15) |
| | Amphicarpa | A. bracteata[c] (26) |
| | Cassia | C. chamaecrista[b] (15), C. nictitans[c] (26) |
| | Crotalaria | C. sagitallis[c] (26) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Dolichos | D. lablab[c] (26) |
| | Glycine | G. max[b] (26) |
| | Lathyrus | L. odoratus[b] (26) |
| | Lespedeza | L. virginica[b] (15), Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15, 26) |
| Baptisia spp. | Lupinus | L. hartwegii[b] (20) |
| | Vigna | V. sinensis[b] (20) |

Table 12. Cajanus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. cajan | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[a] (36) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[a] (3, 9, 73), |
| | | P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |

Table 12. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. cajan | Samanea | S. saman[c] (3) |
| (cont.) | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), |
| | | T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (3, 9, 54, 73) |
| C. indicus | Cajanus | C. indicus[a] (61) |
| | Cyamopsis | C. psoraloides[b] (61) |
| | Dalea | D. alopecuroides[c] (61) |
| | Dolichos | D. lablab[b] (61) |
| | Glycine | G. max[c] (61) |
| | Indigofera | I. tinctoria[b] (61) |
| | Lupinus | L. luteus[c] (61) |
| | Phaseolus | P. aconitifolius[c] (49, 61), |
| | | P. aureus[b] (61), P. radiatus[b] (61), |
| | | P. trilobus[b] (61) |
| | Vigna | V. sinensis[a] (61, 64) |

Table 13. Calopogonium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. mucunoides | Calopogonium | C. mucunoides[a] (35, 39, 43, 45) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (45) |
| | Centrosema | C. pubescens[a] (13, 35, 45) |
| | Crotalaria | C. anagyroides[a] (43, 45), |
| | | C. usaramoensis[a] (43, 45) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35), |
| | | D. gyroides[a] (43, 45) |
| | Dolichos | D. lablab[a] (39) |
| | Glycine | G. max[a] (43, 44) |
| | Indigofera | I. hirsuta[a] (39), I. mucronata[a] (35), |
| | | I. subulata[a] (35), I. sumatrana[a] (35) |
| | Lupinus | L. luteus[a] (43), Lupinus spp.[c] (43) |
| | Mucuna | M. capitata[a] (43, 45) |
| | Ornithopus | O. sativus[c] (43) |
| | Phaseolus | P. angularis[b] (43), P. lathyroides[b] (73), |
| | | P. vulgaris[b] (43) |
| | Pueraria | P. javanica[a] (39) |
| | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35), T. maxima[a] (43, 45), |
| | | T. noctiflora[a] (45), T. vogelii[c] (43) |
| | Teramnus | T. uncinatus[a] (35) |

Table 13. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. mucunoides (cont.) | Vigna | V. catjanj[c] (45), V. sinensis[a] (35, 43, 45) |

Table 14. Canavalia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. campylocarpa | Canavalia | C. ensiformis[b] (3) |
| | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (3) |
| C. ensiformis | Canavalia | C. campylocarpa[c] (3), C. ensiformis[a] (16) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3, 16) |
| | Andira | A. inermis[c] (3) |
| | Cassia | C. chamaecrista[a] (16), |
| | | C. leschenaultiana[b] (16), |
| | | C. mimosoides[c] (3) |

Table 14. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. ensiformis | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), D. sessilifolium[c] (16) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Glycine | G. hispida[c] (23) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[a] (16), I. suffruticosa[a] (3, 16) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3), L. hirta[c] (16), Lespedeza spp.[c] (23) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Mucuna | M. utilis[c] (22) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[a] (3, 16, 23) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Pueraria | P. phaseoloides[c] (16) |
| | Samanea | S. saman[c] (3) |
| | Stizolobium | S. utile[b] (16) |

Table 14. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. ensiformis (cont.) | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (2, 3, 64), Vigna spp.[c] (23) |
| C. gladiata | Arachis | A. hypogoea[b] (36) |
| | Centrosema | C. pubescens[b] (13) |

Table 15. Caragana

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. arborescens | Caragana | C. arborescens[a] (38) |
| | Anthyllis | A. vulneraria[b] (48) |
| | Astragalus | A. glycyphyllus[b] (48) |
| | Colutea | C. arborescens[b] (38) |
| | Lespedeza | L. stipulacea[b] (38) |
| | Lotus | L. corniculatus[b] (38, 47, 48) |
| | Ornithopus | O. sativus[b] (48) |
| | Phaseolus | P. vulgaris[b] (38) |
| | Robinia | R. pseudoacacia[b] (38) |
| | Trifolium | T. pratense[b] (38) |
| C. Chamlagu | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Vigna | V. sinensis[b] (43) |

Table 16. Cassia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. chamaecrista | Cassia | C. chamaecrista[a] (15, 16), C. leschenaultiana[b] (16) |
| | Acacia | A. armata[c] (15), A. floribunda[c] (15), A. linifolia[c] (15), A. longifolia[c] (15), A. melanoxylon[c] (15), A. semperflora[c] (15) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Arachis | A. hypogoea[a] (15, 16) |
| | Baptisia | B. tinctoria[c] (15) |
| | Canavalia | C. ensiformis[a] (16) |
| | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), C. mucronata[b] (16) |
| | Desmodium | D. canescens[c] (15), D. illinoense[c] (15), D. sessilifolium[c] (16), Desmodium spp.[b] (17) |
| | Genista | G. tinctoria[c] (15) |
| | Indigofera | I. endecaphylla[b] (15), I. hirsuta[a] (16), I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Lespedeza | L. hirta[c] (16), L. striata[c] (15), L. virginica[a] (15), Lespedeza spp.[b] (15) |
| | Mucuna | M. utilis[c] (15) |
| | Phaseolus | P. lunatus[a] (16, 79) |
| | Pueraria | P. phaseoloides[c] (16) |
| | Stizolobium | S. utile[b] (16) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[a] (15, 16) |

Table 16. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. fasciculata | Glycine | G. hispida[b] (20) |
| | Vigna | V. sinensis[b] (20) |
| C. leschenaultiana | Cassia | C. chamaecrista[c] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Canavalia | C. ensiformis[c] (16) |
| | Desmodium | D. sessilifolium[c] (15) |
| | Indigofera | I. hirsuta[c] (16) |
| | Lespedeza | L. hirta[c] (16) |
| | Phaseolus | P. lunatus[c] (16) |
| | Pueraria | P. phaseoloides[c] (16) |
| C. mimosoides | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3), |
| | Phaseolus | P. aureus[b] (3), P. aconitifolius[b] (3), |
| | | P. lathyroides[b] (73), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |

Table 16. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. mimosoides (cont.) | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |
| C. nictitans | Baptisia | B. tinctoria[b] (26) |
| | Dolichos | D. lablab[c] (26) |
| | Genista | G. tinctoria[b] (26) |
| | Glycine | G. max[b] (26, 54) |
| | Vigna | V. sinensis[b] (26, 54) |
| C. pilifera | Vigna | V. sinensis[b] (2) |

Table 17. Centrosema

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. pubescens | Centrosema | C. plumieri[b] (9), C. pubescens[a] (9, 13, 35, 43, 45), C. virginianum[c] (9) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (13, 36, 45) |
| | Calopogonium | C. mucunoides[a] (13, 35, 43) |
| | Canavalia | C. gladiata[c] (13) |
| | Clitoria | C. laurifolia[c] (13) |
| | Crotalaria | C. anagyroides[a] (43, 45), C. usaramoensis[a] (43, 45) |
| | Cyamopsis | C. tetragonoloba[c] (9) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35), D. gyroides[a] (43, 45), D. heterophyllum[c] (13), D. uncinatum[b] (9) |
| | Dolichos | D. africanus[c] (13) |
| | Galactia | G. striata[b] (55) |
| | Glycine | G. javanica[b] (9), G. max[c] (13) |
| | Leucaena | L. leucocephala[c] (73) |
| | Lupinus | L. luteus[c] (43), Lupinus spp.[c] (43) |
| | Mucuna | M. capitata[a] (43, 45) |

Table 17. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. pubescens (cont.) | Phaseolus | P. angularis[b] (43), P. aureus[c] (13), P. lathyroides[b] (9, 73) |
| | Pueraria | P. phaseoloides[c] (13) |
| | Stylosanthes | S. gracilis[a] (9), S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35), T. maxima[a] (43, 45), T. noctiflora[a] (45), T. vogelii[c] (43) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (9, 13, 35, 43, 45, 73) |
| C. virginianum | Centrosema | C. plumieri[b] (9), C. pubescens[b] (9) |

Table 18. Cicer

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. arietinum | Cicer | C. arietinum[a] (49, 61, 69, 71), Cicer spp.[c] (65) |
| | Lathyrus | Lathyrus spp.[c] (65) |
| | Pisum | P. sativum[a] (69), Pisum spp.[c] (65) |
| | Vicia | V. sativa[a] (69), Vicia spp.[c] (65) |

Table 19. Clitoria

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. laurifolia | Centrosema | C. pubescens[b] (13) |
| C. racemosa | Dolichos | D. lablab[b] (46) |
| | Vigna | V. sinensis[b] (46) |
| C. rubiginosa | Leucaena | L. leucocephala[c] (73) |
| C. ternatea | Clitoria | C. ternatea[a] (59, 63) |
| | Acacia | A. koa[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[a] (36) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Centrosema | C. plumieri[b] (9) |
| | Crotalaria | C. juncea[a] (59, 63), C. retusa[a] (59, 63) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Dolichos | D. biflorus[b] (59, 63) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Glycine | G. max[a] (59, 63) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |

Table 19. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. ternatea (cont.) | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aureus[a] (59, 63), P. lathyroides[a] (3, 9, 73), P. lunatus[c] (3, 23), P. mungo[a] (59, 63), P. trilobus[a] (59, 63) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[c] (3) |
| | Sesbania | S. aculeata[a] (59, 63), S. aegyptica[b] (59, 63), S. speciosa[a] (59, 63) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. catjanj[a] (59, 63), V. marina[c] (3), V. sinensis[a] (2, 3, 9), Vigna spp.[c] (23) |

Table 20. Coronilla

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. varia | Coronilla | C. varia[a] (76) |
| | Onobrychis | O. viciaefolia[a] (76) |

Table 21. Crotolaria

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. anagyroides | Crotalaria | C. anagyroides[a] (43, 45), |
| | | C. usaramoensis[a] (43, 45) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (45) |
| | Calopogonium | C. mucunoides[a] (43, 45) |
| | Centrosema | C. pubescens[a] (43, 45) |
| | Desmodium | D. gyroides[a] (43, 45) |
| | Leucaena | L. leucocephala[c] (73) |
| | Lupinus | L. luteus[c] (43), Lupinus spp.[c] (43) |
| | Mucuna | M. capitata[c] (45) |
| | Phaseolus | P. angularis[b] (43), P. lathyroides[b] (73), |
| | | P. vulgaris[b] (43) |
| | Tephrosia | T. maxima[a] (43, 45), T. noctiflora[a] (43, 45), |
| | | T. vogelii[c] (43) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (2, 43, 45, 73) |
| C. assamica | Vigna | V. sinensis[b] (2) |
| C. burhia | Arachis | A. hypogoea[a] (36) |
| C. capensis | Arachis | A. hypogoea[a] (36) |
| C. goreensis | Vigna | V. unguiculata[b] (57) |
| C. incana | Vigna | V. sinensis[b] (2) |
| C. juncea | Crotalaria | C. juncea[a] (60, 63), C. mucronata[c] |
| | | C. retusa[a] (63), C. sagitallis[c] (16 |

Table 21. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. juncea | Crotalaria | C. spectabilis[c] (16), |
| (cont.) | (cont.) | C. usaramoensis[a] (60) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3, 16) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[a] (36) |
| | Baptisia | B. alba[c] (16) |
| | Canavalia | C. camphylocarpa[c] (3) |
| | Cassia | C. chamaecrista[c] (16), C. mimosoides[c] (3) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), D. sessilifolium[c] (66), |
| | | D. tortuosum[c] (16) |
| | Enterolobium | E. cycloparium[c] (3) |
| | Erythrina | E. indica[c] (3, 16) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3) |

Table 21. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. juncea | Lonchocarpus | L. domingensis[c] (3) |
| (cont.) | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[c] (61), P. lathyroides[c] (3), |
| | | P. lunatus[c] (3), P. mungo[c] (61) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Pueraria | P. javanica[a] (60) |
| | Samanea | S. saman[a] (3) |
| | Sesbania | S. speciosa[a] (63) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[a] (3, 60), T. noctiflora[a] (3, 60), |
| | | T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[c] (3, 61) |
| C. lanceolata | Crotalaria | C. mucronata[c] (16), C. sagitallis[c] (16), |
| | | C. spectabilis[c] (16 |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Baptisia | B. alba[c] (16) |
| | Cassia | C. chamaecrista[c] (16) |
| | Desmodium | D. sessifolium[c] (16), D. tortuosum[c] (16) |
| | Erythrina | E. indica[c] (16) |
| | Lotononis | L. bainseii[c] (58) |

Table 21. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. mucronata | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), C. mucronata[a] (16), C. sagitallis[c] (16), C. spectabilis[c] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Arachis | A. hypogoea[b] (16) |
| | Baptisia | B. alba[c] (16) |
| | Cassia | C. chamaecrista[c] (16) |
| | Desmodium | D. sessilifolium[c] (16), D. tortuosum[c] (16) |
| | Erythrina | E. indica[c] (16) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[b] (16) |
| C. retusa | Crotalaria | C. juncea[a] (63), C. retusa[a] (63, 64, 66) |
| | Aeschynomene | Aeschynomene spp.[c] (66) |
| | Alysicarpus | A. rugosus[c] (66) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Desmodium | D. asperum[a] (66) |
| | Dolichos | D. biflorus[b] (63) |
| | Glycine | G. max[a] (63) |
| | Indigofera | I. astragalina[c] (66), I. mummulariifolia[c] (66) |
| | Phaseolus | P. aureus[a] (63), P. mungo[a] (63), P. trilobus[a] (63), P. vulgaris[a] (63) |

Table 21. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. retusa | Psophocarpus | P. palustris[c] (66) |
| (cont.) | Sesbania | S. aculeata[a] (63), S. aegyptica[b] (63), |
| | | S. leptocarpa[a] (66), S. speciosa[a] (63 |
| | Vigna | V. catjanj[a] (63), V. racemosa[a] (66), |
| | | V. reticulata[c] (66), V. sinensis[b] (66 |
| C. sagitallis | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), |
| | | C. mucronata[b] (16) |
| | Arachis | A. hypogoea[b] (16) |
| | Baptisia | B. tinctoria[b] (26) |
| | Cyamopsis | C. tetragonoloba[b] (34) |
| | Desmodium | D. aparines[b] (46) |
| | Genista | G. tinctoria[b] (26) |
| | Glycine | G. hispida[b] (20), G. wightii[b] (46) |
| | Lupinus | L. hartwegii[b] (20) |
| | Macroptilium | M. atropupureum[b] (46) |
| | Stylosanthes | S. guianensis[b] (46) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[b] |
| | | (16, 20, 26) |
| C. sericea | Vigna | V. sinensis[b] (2) |
| C. spectabilis | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), |
| | | C. mucronata[b] (16) |

Table 21. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. spectabilis (cont.) | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[b] (16) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domengensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3 |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |

Table 21. (continued)

| Test species | Orgarisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. spectabilis (cont.) | Vigna | V. marina[c] (3), V. sesquipedalis[b] (16), V. sinensis[a] (3, 16) |
| C. striata | Lotononis | L. bainseii[c] (58) |
| C. usaramoensis | Crotalaria | C. anagyroides[a] (43, 45), C. juncea[a] (60), C. usaramoensis[a] (43, 45, 60) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (45) |
| | Calopogonium | C. mucunoides[a] (43, 45) |
| | Centrosema | C. pubescens[a] (43, 45) |
| | Desmodium | D. gyroides[a] (43, 45) |
| | Lupinus | L. luteus[c] (43), Lupinus spp.[c] (43) |
| | Mucuna | M. capitata[a] (43, 45) |
| | Ornithopus | O. sativus[c] (43) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Pueraria | P. javanica[a] (60) |
| | Tephrosia | T. candida[a] (60), T. maxima[a] (43, 45), T. noctiflora[a] (43, 45, 60) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (2, 43, 45), V. unguiculata[c] (57) |
| Crotalaria spp. | Dolichos | D. lablab[b] (46) |
| | Vigna | V. sinensis[b] (46, 57) |

Table 22. Cyamopsis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. tetragonoloba | Cyamopsis | C. tetragonoloba[a] (34) |
| | Alysicarpus | A. vaginalis[c] (34) |
| | Arachis | A. hypogoea[b] (36) |
| | Cajanus | C. indicus[c] (61) |
| | Centrosema | C. plumieri[b] (9), C. pubescens[b] (9) |
| | Crotalaria | C. sagitallis[c] (34) |
| | Dalea | D. alopecuroides[c] (61) |
| | Erythrina | E. indica[c] (34) |
| | Indigofera | I. hirsuta[c] (34) |
| | Lespedeza | L. stipulacea[c] (34) |
| | Lupinus | L. luteus[c] (61) |
| | Phaseolus | P. aconitifolius[c] (61), |
| | | P. lathyroides[b] (9) |
| | Pueraria | P. thunbergiana[c] (34) |
| | Vigna | V. sinensis[a] (9, 61, 64) |

Table 23. Cytisus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. hirsutus | Genista | G. tinctoria[c] (26) |
| C. scoparius | Cytisus | C. scoparius[a] (3) |
| | Acacia | A. koa[a] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. campylocarpa[c] (3), C. ensiformis[b] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Crotalaria | C. juncea[b] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[a] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[a] (3), L. stipulacea[b] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lathyroides[c] (3), P. lunatus[a] (3) |

Table 23. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| C. scoparius (cont.) | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[a] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. sinensis[a] (3) |

Table 24. Dalea

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. alopecuroides | Dalea | D. alopecuroides[a] (78), D. lagopus[b] (46) |
| | Cajanus | C. indicus[b] (61) |
| | Cyamopsis | D. psoraloides[b] (61) |
| | Dolichos | D. lablab[b] (61) |
| | Glycine | G. wightii[b] (46) |
| | Indigofera | I. tinctoria[b] (61) |
| | Leucaena | L. glauca[b] (43) |
| | Mimosa | M. invisa[b] (43) |
| | Phaseolus | P. aureus[b] (61), P. calcaratus[b] (61), |
| | | P. trilobus[b] (61), P. vulgaris[a] (43, 68) |
| | Stylosanthes | S. guianensis[b] (46) |
| | Vigna | V. sinensis[b] (43, 61 |
| D. lagopus | Dalea | D. alopecuroides[c] (4 |
| | Lotus | L. corniculatus[c] (46 |
| Dalea spp. | Dalea | Dalea spp.[a] (45) |
| | Astragalus | A. sinicus[b] (45) |
| | Leucaena | L. glauca[a] (45) |
| | Mimosa | M. strigillosa[a] (45) |
| | Sesbania | S. aegyptica[a] (45) |
| | Vigna | V. sinensis[c] (45) |

Table 25. Derris

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. elliptica | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (73) |
| D. microphylla | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 26. Desmodium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. adcendens | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), |
| | | I. sumatrana[a] (35) |
| | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (35) |
| D. aparines | Crotalaria | C. sagitallis[c] (46) |
| | Dolichos | D. biflorus[c] (46) |
| | Lotus | L. uliginosus[c] (46) |
| D. asperum | Desmodium | D. asperum[a] (66) |
| | Alysicarpus | A. rugosus[c] (66) |
| | Crotalaria | C. retusa[a] (66) |
| | Glycine | G. max[b] (66) |
| | Psophocarpus | P. palustris[c] (66) |
| | Sesbania | S. leptocarpa[a] (66) |
| | Vigna | V. racemosa[a] (66), V. reticulata[c] (66), |
| | | V. sinensis[b] (66) |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. canescens (cont.) | Vigna | V. sinensis[b] (15) |
| D. discolor | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), I. sumatrana[a] (35) |
| | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (2, 35) |
| D. distortum | Phaseolus | P. lathyroides[b] (73) |
| D. gangeticum | Arachis | A. hypogoea[a] (36) |
| D. gyroides | Desmodium | D. gyroides[a] (43, 45) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[c] (45) |
| | Calopogonium | C. mucunoides[a] (43, 45) |
| | Centrosema | C. pubescens[a] (43, 45) |
| | Crotalaria | C. anagyroides[a] (43, 45), C. usaramoensis[a] (43, 45) |
| | Glycine | G. max[c] (43) |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. gyroides | Lupinus | L. luteus[c] (43) |
| (cont.) | Mucuna | M. capitata[a] (43, 45) |
| | Ornithopus | O. sativus[c] (43) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Tephrosia | T. maxima[a] (43, 45), T. noctiflora[a] (45), |
| | | T. vogelii[c] (43) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (43, 45) |
| D. heterophyllum | Astragalus | A. sinicus[b] (25) |
| | Centrosema | C. pubescens[b] (13) |
| D. illinoense | Desmodium | Desmodium spp.[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Lespedeza | L. virginica[b] (15), Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15) |
| D. intortum | Galactia | G. striata[b] (55) |
| | Phaseolus | P. lathyroides[b] (55) |
| D. microphyllum | Phaseolus | P. lathyroides[b] (73) |
| D. ovaliflorum | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (73) |
| [illegible] | Galactia | G. striata[b] (55) |
| | Vigna | V. sinensis[b] (15) |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. paniculatum | Glycine | G. max[b] (26) |
| | Vigna | V. sinensis[b] (26) |
| D. purpureum | Desmodium | D. barbatum[c] (3) |
| | Acacia | A. koa[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| D. sandwicense | Arachis | A. hypogoea[a] (36) |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. sequax | Phaseolus | P. lathyroides[b] (73) |
| D. sessilifolium | Arachis | A. hypogoea[b] (16) |
| | Canavalia | C. ensiformis[b] (16) |
| | Cassia | C. chamaecrista[b] (16), |
| | | C. leschenaultiana[b] (16) |
| | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), |
| | | C. mucronata[b] (16) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[b] (16), |
| | | I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Phaseolus | P. lathyroides[b] (9), P. lunatus[b] (16) |
| | Stizolobium | S. utile[b] (16) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[b] |
| | | (9, 16) |
| D. tortuosum | Arachis | A. hypogoea[b] (16) |
| | Crotalaria | C. juncea[b] (16), C. lanceolata[b] (16), |
| | | C. mucronata[b] (16) |
| | Lespedeza | Lespedeza spp.[c] (23) |
| | Mucuna | M. utilis[c] (23) |
| | Phaseolus | P. lunatus[a] (23, 79) |
| | Vigna | V. sesquipedalis[b] (16), V. sinensis[c] |
| | | (16, 54 |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. triflorum | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (73) |
| D. uncinatum | Desmodium | D. uncinatum[a] (9) |
| | Arachis | A. hypogoea[b] (55) |
| | Galactia | G. striata[b] (55) |
| | Glycine | G. javanica[a] (55) |
| | Phaseolus | P. lathyroides[a] (9) |
| | Stylosanthes | S. gracilis[a] (9) |
| | Vigna | V. sinensis[b] (2, 9) |
| Desmodium spp. | Desmodium | D. canescens[c] (15), D. illinoense[c] (15) |
| | Acacia | A. armata[c] (15), A. floribunda[c] (15), A. linifolia[c] (15), A. longifolia[c] (15), A. melanoxylon[c] (15), A. semperflora[c] (15) |
| | Arachis | A. hypogoea[c] (15) |
| | Baptisia | B. tinctoria[c] (15) |
| | Cassia | C. chamaecrista[c] (15) |
| | Centrosema | C. plumieri[b] (9) |
| | Galactia | G. striata[b] (55) |
| | Glycine | G. hispida[b] (20) |
| | Lespedeza | L. striata[c] (15), L. virginica[c] (15) |
| | Mucuna | M. utilis[c] (15) |

Table 26. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Desmodium spp. | Phaseolus | P. lathyroides[b] (9. 73) |
| (cont.) | Vigna | V. sinensis[a] (9, 15, 20) |

Table 27. Dolichos

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. africanus | Arachis | A. hypogoea[b] (55) |
| | Centrosema | C. pubescens[b] (55) |
| | Galactia | G. striata[b] (55) |
| | Stylosanthes | S. erecta[b] (56), S. guianensis[b] (56), S. humilis[b] (56), S. montevidensis[b] (52), S. mucronata[b] (56), S. viscosa[b] (56) |
| D. biflorus | Arachis | A. hypogoea[a] (36) |
| | Clitoria | C. ternatea[c] (59, 63) |
| | Crotalaria | C. retusa[c] (63) |
| | Desmodium | D. aparines[b] (46) |
| | Glycine | G. wightii[b] (46) |
| | Lupinus | L. luteus[c] (61) |
| | Macroptilium | M. atropurpureum[b] (46) |
| | Phaseolus | P. aconitifolius[c] (61) |
| | Sesbania | S. aculeata[c] (61), S. speciosa[c] (63) |
| | Stylosanthes | S. guianensis[b] (46) |
| | Vigna | V. sinensis[a] (61, 64) |
| D. bilobus | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[b] (28), S. guianensis[b] (28), S. hamata[b] (28), S. scabra[b] (28), S. subsericea[b] (28), S. viscosa[b] (28) |
| D. lablab | Dolichos | D. lablab[a] (39) |
| | Acacia | A. koa[c] (3) |

Table 27. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| D. lablab | Albizzia | A. lebbek[c] (3) |
| (cont.) | Alysicarpus | A. longifolius[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[a] (36) |
| | Baptisia | B. tinctoria[b] (26) |
| | Cajanus | C. indicus[c] (61) |
| | Calopogonium | C. mucunoides[a] (39) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3), C. nictitans[b] (26) |
| | Clitoria | C. racesoma[c] (46) |
| | Crotalaria | Crotalaria spp.[c] (46) |
| | Cytisus | C. scoparius[c] (3) |
| | Dalea | D. alopecuroides[c] (61) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Genista | G. tinctoria[b] (26) |
| | Glycine | G. hispida[c] (23), G. max[b] (26) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. hirsuta[a] (39), I. suffruticosa[c] (3) |

Table 27. (continued)

| Test species | Organisms cross inocu | |
|---|---|---|
| | Genus | |
| D. lablab | Inga | I. laurina[c] (3) |
| (cont.) | Lespedeza | L. sericea[c] (3), Lespedeza spp.[c] (23) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Lupinus | L. luteus[c] (61) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[c] (61), P. lathyroides[a] (3, 73), P. lunatus[c] (3, 23) |
| | Piscidia | P. erythrina[c] (3) |
| | Pisum | Pisum spp.[c] (46) |
| | Pongamia | P. pinnata[c] (3) |
| | Pueraria | P. javanica[a] (39) |
| | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (3, 26, 61, 64) |
| D. multiflorus | Dolichos | D. multiflorus[a] (69) |

Table 28. Enterolobium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| E. cyclocarpium | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 29. Erythrina

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| E. abyssinica | Vigna | V. sinensis[b] (2) |
| E. arborea | Vigna | V. sinensis[b] (2) |
| E. berteroania | Vigna | V. sinensis[b] (2) |
| E. corallodendron | Vigna | V. sinensis[b] (2) |
| E. cristogalli | Vigna | V. sinensis[b] (2) |
| E. fusca | Vigna | V. sinensis[b] (2) |
| E. horrida | Vigna | V. sinensis[b] (2) |
| E. indica | Erythrina | E. indica[a] (3) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Arachis | A. hypogoea[b] (16), A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. campylocarpa[c] (3), C. ensiformis[b] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3, 16), C. lanceolata[b] (16), C. mucronata[b] (16), C. spectabilis[b] (3) |
| | Cyamopsis | C. tetragonoloba[b] (34) |
| | Cytisus | C. scoparius[a] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), D. purpureum[b] (3) |

Table 29. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| E. indica | Dolichos | D. lablab[b] (3) |
| (cont.) | Enterolobium | E. cyclocarpium[c] (3 |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3 |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[a] (3), L. stipulacea[b] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), |
| | | P. lathyroides[c] (3), P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[a] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[a] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), |
| | | T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sesquipedalis[b] (16), |
| | | V. sinensis[a] (2, 3, 16) |
| E. insignis | Vigna | V. sinensis[b] (2) |
| E. micropteryx | Vigna | V. sinensis[b] (2) |
| E. monosperma | Vigna | V. sinensis[b] (2) |

Table 29. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| E. poeppigiana | Vigna | V. sinensis[b] (2) |
| E. rubrinervia | Vigna | V. sinensis[b] (2) |
| E. subumbrans | Vigna | V. sinensis[b] (2) |
| E. velutina | Vigna | V. sinensis[b] (2) |

Table 30. Flemingia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| F. congesta | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (73) |

Table 31. Galactia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. striata | Centrosema | C. pubescens[c] (55) |
| | Desmodium | D. barbatum[c] (55), D. intortum[c] (55), D. pabulare[c] (55), D. uncinatum[c] (55), Desmodium spp.[c] (55) |
| | Dolichos | D. africanus[c] (55) |
| | Glycine | G. wightii[c] (55) |
| | Phaseolus | P. atropurpurens[c] (55) |
| | Stylosanthes | Stylosanthes spp.[c] (55) |

Table 32. Genista

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. praecox | Genista | G. tinctoria[c] (26) |
| G. tinctoria | Genista | G. praecox[b] (26) |
| | Amphicarpa | A. bracteata[c] (26) |
| | Arachis | A. hypogoea[b] (26) |
| | Cassia | C. chamaecrista[b] (15), C. nictitans[c] (26) |
| | Crotalaria | C. sagitallis[c] (26) |
| | Cytisus | C. hirsutus[b] (26) |
| | Desmodium | Desmodium spp.[b] (15) |
| | Dolichos | D. lablab[c] (26) |
| | Glycine | G. max[b] (26) |
| | Lespedeza | L. virginica[b] (15), Lespedeza spp.[b] (15) |
| | Vigna | V. sinensis[b] (15, 26) |

Table 33. Glycine

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. hispida | Glycine | G. hispida[a] (15, 23, 69) |
| | Amphicarpa | A. bracteata[c] (20) |
| | Apios | A. americana[c] (20) |
| | Arachis | A. hypogoea[b] (23) |
| | Canavalia | C. ensiformis[b] (23) |
| | Cassia | C. fasciculata[c] (20) |
| | Crotalaria | C. sagittalis[c] (20) |
| | Desmodium | Desmodium spp.[c] (20) |
| | Dolichos | D. lablab[b] (23) |
| | Lespedeza | Lespedeza spp.[a] (8, 23) |
| | Lupinus | L. perennis[c] (20) |
| | Mucuna | M. utilis[b] (23) |
| | Vigna | Vigna spp.[a] (23) |
| G. javanica | Glycine | G. javanica[a] (9) |
| | Arachis | A. hypogoea[a] (36) |
| | Centrosema | C. pubescens[c] (9) |
| | Desmodium | D. uncinatum[a] (9) |
| | Phaseolus | P. lathyroides[b] (9) |
| | Stylosanthes | S. gracilis[a] (9) |
| | Vigna | V. sinensis[b] (9) |

Table 33. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. max | Glycine | G. max[a] (5, 6, 7, 24, 30, 31, 32, 43, 63, 71), Glycine spp.[c] (37, 54) |
| | Albizzia | A. moluccana[b] (43) |
| | Arachis | A. hypogoea[b] (30) |
| | Baptisia | B. tinctoria[c] (26) |
| | Cajanus | C. cajan[b] (61) |
| | Calopogonium | C. mucunoides[a] (43, 44) |
| | Cassia | C. nictitans[c] (26, 54) |
| | Centrosema | C. pubescens[b] (13) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. retusa[a] (63) |
| | Desmodium | D. asperum[c] (66), D. gyroides[b] (43), D. paniculatum[c] (26) |
| | Dolichos | D. lablab[c] (26) |
| | Genista | G. tinctoria[c] (26) |
| | Indigofera | I. mummulariifolia[c] (66), I. tinctoria[b] (61) |
| | Lespedeza | L. frutescens[c] (26), L. hirta[c] (26) |
| | Lupinus | Lupinus spp.[a] (31, 37) |
| | Mucuna | M. capitata[c] (43) |

Table 33. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. max (cont.) | Phaseolus | P. aconitifolius[a] (7, 54), P. acutifolius[c] (54), P. angularis[a] (43,44,54), P. atropurpurens[a] (7), P. aureus[a] (7, 61), P. calcaratus[a] (7), P. lathyroides[a] (7, 9, 73), P. lunatus[b] (30), P. mungo[a] (7), P. radiatus[b] (61), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7), P. vulgaris[b] (43) |
| | Sesbania | S. leptocarpa[c] (66), S. speciosa[a] (63) |
| | Tephrosia | T. maxima[c] (43, 44), T. noctiflora[c] (44), T. vogelii[c] (43, 44) |
| | Ulex | U. europaeus[c] (54) |
| | Vigna | V. catjanj[b] (6), V. reticulata[c] (66), V. sinensis[a] (9, 24, 30, 43, 44, 61, 71, 73), V. unguiculata[b] (54), Vigna spp.[c] (54) |
| | Voandzeia | V. subterranea[b] (30) |
| G. tabacina | Phaseolus | P. lathyroides[b] (9) |
| | Vigna | V. sinensis[b] (9) |
| G. ussuriensis | Glycine | G. max[c] (10) |
| G. wightii | Arachis | A. hypogoea[b] (55) |

Table 33. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| G. wightii (cont.) | Crotalaria | C. sagitallis[c] (46) |
| | Dalea | D. alopecuroides[c] (46) |
| | Dolichos | D. biflorus[c] (46) |
| | Galactia | G. striata[b] (55) |
| | Lotus | L. uliginosus[c] (46) |
| | Sesbania | Sesbania spp.[c] (46) |
| Glycine spp. | Glycine | G. max[b] (37), Glycine spp.[a] (53) |
| | Lupinus | Lupinus spp.[b] (53) |
| | Ornithopus | O. sativus[b] (37) |
| | Phaseolus | P. lathyroides[b] (37), P. vulgaris[b] (37) |
| | Vigna | V. sinensis[b] (37, 46), Vigna spp.[a] (67) |

Table 34. Hymenaea

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| H. courbaril | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 35. Indigofer

| Test species | Organisms cro<br>Genus | |
|---|---|---|
| I. arrecta | Phaseolus | [illegible] |
| | Vigna | V. sinensis[b] (73) |
| I. astragalina | Crotalaria | C. retusa[b] (66) |
| | Sesbania | S. leptocarpa[b] (66) |
| | Vigna | V. racemosa[b] (66), V. sinensis[b] (66) |
| I. cordifolia | Arachis | A. hypogoea[a] (36) |
| I. decora | Phaseolus | P. angularis[b] (43) |
| | Vigna | V. sinensis[b] (43) |
| I. endecaphylla | Indigofera | I. hirsuta[c] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Canavalia | C. ensiformis[c] (16) |
| | Cassia | C. chamaecrista[c] (1 |
| | Desmodium | D. sessilifolium[c] ( |
| | Lespedeza | L. hirta[c] (16) |
| | Phaseolus | P. lathyroides[b] (73), P. lunatus[c] (16) |
| | Pueraria | P. phaseoloides[c] (1 |
| | Vigna | V. sinensis[b] (73) |
| I. hirsuta | Indigofera | I. endecaphylla[b] (16), I. hirsuta[a] (16, 39), I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Calopogonium | C. mucunoides[a] (39) |

Table 35. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| I. hirsuta | Canavalia | C. ensiformis[a] (16) |
| (cont.) | Cassia | C. chamaecrista[a] (16), |
| | | C. leschenaultiana[b] (16 |
| | Cyamopsis | C. tetragonoloba[b] (34) |
| | Desmodium | D. sessilifolium[c] (16) |
| | Dolichos | D. lablab[a] (39) |
| | Lespedeza | L. hirta[c] (16) |
| | Leucaena | L. leucocephala[c] (73) |
| | Phaseolus | P. lathyroides[b] (9), P. lunatus[a] (16) |
| | Pueraria | P. javanica[a] (39), P. phaseoloides[c] (16) |
| | Stizolobium | S. utile[b] (16) |
| | Vigna | V. sinensis[b] (2, 9) |
| I. linifolia | Arachis | A. hypogoea[a] (36) |
| I. mummularifolia | Crotalaria | C. retusa[b] (66) |
| | Glycine | G. max[b] (66) |
| | Psophocarpus | P. palustris[b] (66) |
| | Sesbania | S. leptocarpa[b] (66) |
| | Vigna | V. racemosa[b] (66), V. sinensis[b] (66) |
| I. mucronata | Indigofera | I. subulata[a] (35), I. sumatrana[a] (35) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |

Table 35. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| I. mucronata (cont.) | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (35) |
| I. oblongifolia | Arachis | A. hypogoea[b] (36) |
| I. pentosa | Indigofera | I. hirsuta[c] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Canavalia | C. ensiformis[c] (16) |
| | Desmodium | D. sessilifolium[c] (16) |
| | Lespedeza | L. hirta[c] (16) |
| | Phaseolus | P. lunatus[c] (16) |
| | Pueraria | P. phaseoloides[c] (16) |
| I. subulata | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), I. sumutrana[a] (35) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |
| | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (35) |

Table 35. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| I. suffruticosa | Indigofera | I. hirsuta[c] (16) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Arachis | A. hypogoea[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[a] (3, 1 |
| | Cassia | C. chamaecrista[c] (16 |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3), D. sessilifolium[c] (16) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. hirta[c] (16), |
| | | L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), |
| | | P. lathyroides[b] (73), P. lunatus[c] (16) |
| | Pueraria | P. phaseoloides[c] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3, 73) |

Table 35. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| I. sumatrana | Indigofera | I. mucronata (35), I. subulata (35), I. sumatrana (35) |
| | Arachis | A. hypogoea[a] (36) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |
| | Stylosanthes | S. guianensis[a] (35) |
| | Tephrosia | T. candida[a] (35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (35) |
| I. tenuis | Arachis | A. hypogoea[c] (36) |
| I. tinctoria | Cajanus | C. indicus[c] (61) |
| | Dalea | D. alopecuroides[c] (61) |
| | Glycine | G. max[c] (61) |
| | Lupinus | L. luteus[c] (61) |
| | Phaseolus | P. aconitifolius[c] (61) |
| I. trifoliata | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (73) |

Table 36. Inga

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| I. edulis | Vigna | V. sinensis[b] (2) |
| I. laurina | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 37. Jacksonia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| J. furcellata | Lupinus | L. angustifolius[c] (52), |
| | | L. digitatus[c] (52) |
| J. scoparia | Vigna | V. unguiculata[b] (57) |

Table 38. Lathyrus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. cicera | Pisum | Pisum spp.[c] (46) |
| L. japonicus | Lathyrus | L. odoratus[b] (26) |
| | Pisum | P. sativum[b] (26) |
| | Vicia | V. villosa[b] (26) |
| L. latifolius | Lathyrus | L. odoratus[b] (26), Lathyrus spp.[b] (15) |
| | Lens | L. esculenta[b] (15) |
| | Pisum | Pisum spp.[b] (15) |
| | Vicia | V. villosa[b] (26), Vicia spp.[b] (15) |
| L. odoratus | Lathyrus | L. japonicus[c] (26), L. latifolius[a] (26), L. odoratus[a] (51, 69), L. silvestris[a] (69), Lathyrus spp.[b] (15) |
| L. silvestris | Lathyrus | L. odoratus[a] (69), L. silvestris[a] (69) |
| | Pisum | P. sativum[a] (69) |
| | Vicia | V. sativa[a] (69) |
| Lathyrus spp. | Lathyrus | L. latifolius[c] (15), L. odoratus[c] (15) |
| | Cicer | C. arietinum[b] (65) |
| | Lens | L. esculenta[a] (15, 65) |
| | Pisum | P. arvense[c] (15), P. sativum[c] (15), Pisum spp.[b] (65) |
| | Vicia | V. angustifolia[c] (15), V. daysiecarpa[c] (15), V. faba[a] (15, 65) V. sativa[a] (15, 65), V. villosa[a] (15, 65) |

Table 39. Lens

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. esculenta | Lens | L. esculenta[a] (15, 71) |
| | Lathyrus | L. latifolius[c] (15), L. odoratus[c] (15), Lathyrus spp.[a] (15, 65) |
| | Pisum | P. arvense[c] (15), P. sativum[a] (15, 71), Pisum spp.[a] (15, 41, 65) |
| | Vicia | V. angustifolia[c] (15), V. daysiecarpa[c] (15), V. faba[a] (15, 41, 71), V. sativa[c] (15), V. villosa[c] (15), Vicia spp.[a] (15, 41, 65) |

Table 40. Lespedeza

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. bicolor rosea | Lespedeza | L. frutescens[c] (26), L. hirta[c] (26) |
| L. frutescens | Lespedeza | L. bicolor rosea[b] (26) |
| | Glycine | G. max[b] (26) |
| L. hirta | Lespedeza | L. bicolor rosea[b] (26) |
| | Canavalia | C. ensiformis[b] (16) |
| | Cassia | C. chamaecrista[b] (16), |
| | | C. leschenaultiana[b] (16) |
| | Glycine | G. max[b] (16) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[b] (16), |
| | | I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Phaseolus | P. lathyroides[b] (9), P. lunatus[b] (16) |
| | Stizolobium | S. utile[b] (16) |
| | Vigna | V. sinensis[b] (9, 26) |
| L. sericea | Lespedeza | L. sericea[a] (3), L. stipulacea[b] (3) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. cumulicarpa[c] (3) |
| | | C. ensiformis[b] (3) |

Table 40. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. sericea (cont.) | Cassia | C. mimosoides[c] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[a] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[a] (3) |
| | Inga | I. laurina[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lathyroides[c] (3), P. lunatus[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[a] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[a] (3) |
| | Tephrosia | T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (3), V. unguiculata[b] (57) |

Table 40. (continued)

| Test species | Orgar Genus | Species |
|---|---|---|
| L. stipulacea | Lespedeza | L. sericea[c] (3), L. stipulacea[a] (5) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Caragana | C. arborescens[c] (38) |
| | Cassia | C. mimosoides[c] (3) |
| | Cyamopsis | C. tetragonoloba[b] (34 |
| | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Leucaena | L. leucocephala[c] (73) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[c] (3) |

Table 40. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. stipulacea (cont.) | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Psoralea | P. onobrychis[b] (4) |
| | Samanea | |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[c] (3), V. unguiculata[b] (57) |
| L. striata | Lespedeza | L. striata[a] (51, 69), L. virginica[b] (15) |
| | Arachis | A. hypogoea[b] (15) |
| | Cassia | C. chamaecrista[b] (15) |
| | Centrosema | C. plumieri[b] (9) |
| | Desmodium | D. canescens[b] (15), D. illinoense[b] (15) |
| | Mucuna | M. utilis[a] (51) |
| | Phaseolus | P. lathyroides[b] (9), P. lunatus[b] (79) |
| | Vigna | V. sinensis[b] (9, 15, 51, 54), V. unguiculata[b] (57) |
| L. virginica | Lespedeza | L. striata[c] (15), L. virginica[a] (15), Lespedeza spp.[b] (15) |
| | Acacia | A. floribunda[c] (15) |

Table 40. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. virginica (cont.) | Arachis | A. hypogoea[a] (15) |
| | Baptisia | B. tinctoria[c] (15) |
| | Cassia | C. chamaecrista[a] (15) |
| | Desmodium | D. canescens[c] (15), D. illinoense[c] (15), Desmodium spp.[b] (15) |
| | Genista | G. tinctoria[c] (15) |
| | Mucuna | M. utilis[c] (15) |
| | Vigna | V. sinensis[a] (15) |
| Lespedeza spp. | Lespedeza | L. striata[c] (15), L. virginica[c] (15), Lespedeza spp.[a] (23) |
| | Acacia | A. armata[c] (15), A. floribunda[c] (15), A. linifolia[c] (15), A. longifolia[c] (15), A. melanoxylon[c] (15), A. semperflora[c] (15) |
| | Arachis | A. hypogoea[a] (15, 23) |
| | Baptisia | B. tinctoria[c] (15) |
| | Canavalia | C. ensiformis[b] (23) |
| | Cassia | C. chamaecrista[c] (15) |
| | Desmodium | D. canescens[c] (15), D. illinoense[c] (15), D. tortuosum[b] (23) |
| | Dolichos | D. lablab[b] (23) |
| | Genista | G. tinctoria[c] (15) |

Table 40. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Lespedeza spp. (cont.) | Glycine | G. hispida[a] (20, 23) |
| | Lupinus | L. hartwegii[b] (20) |
| | Mucuna | M. utilis[a] (15, 23) |
| | Phaseolus | P. lunatus[a] (23) |
| | Vigna | V. sinensis[a] (15, 20), V. unguiculata[b] (57), Vigna spp.[a] (23) |

Table 41. Leucaena

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. glauca | Leucaena | L. glauca[a] (35, 43, 45) |
| | Dalea | D. alopecuroides[c] (43), |
| | | Dalea spp.[a] (45) |
| | Mimosa | M. invisa[a] (43), M. strigillosa[a] (45) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Sesbania | S. aegyptica[a] (43, 45) |
| | Vigna | V. sinensis[a] (43, 45), V. unguiculata[b] (57) |
| L. leucocephala | Leucaena | L. leucocephala[a] (73) |
| | Acacia | A. farnesiana[a] (73) |
| | Calopogonium | C. caeruleum[b] (73) |
| | Centrosema | C. plumieri[b] (73), C. pubescens[b] (73) |
| | Clitoria | C. rubiginosa[b] (73) |
| | Crotalaria | C. anagyroides[b] (73) |
| | Indigofera | I. hirsuta[b] (73) |
| | Lespedeza | L. stipulacea[b] (73) |
| | Medicago | M. sativa[b] (73) |
| | Mimosa | M. invisa[a] (73), M. pudica[c] (73) |
| | Phaseolus | P. atropurpurens[b] (73), |
| | | P. lathyroides[b] (73) |
| | Pueraria | P. phaseoloides[b] (73) |
| | Sesbania | S. grandiflora[a] (73) |
| | Tephrosia | T. candida[b] (73), T. vogelii[b] (73) |
| | Vigna | V. sesquipedalis[b] (73), V. sinensis[b] (73) |

Table 42. Lonchocarpus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. domingensis | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (3) |
| L. latifolius | Vigna | V. sinensis[b] (2) |
| L. sericeus | Vigna | V. sinensis[b] (2) |
| L. violaceous | Vigna | V. owahuensis[b] (2) |

Table 43. Lotononis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. bainseii | Lotononis | Lotononis spp.[b] (58) |
| | Aeschynomene | A. indica[b] (58) |
| | Crotalaria | C. lanceolata[b] (58), C. striata[b] (58) |
| Lotononis spp. | Lotononis | L. bainseii[c] (58) |

Table 44. Lotus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. corniculatus | Lotus | L. corniculatus[a] (21, 37, 69), |
| | | L. uliginosus[a] (48) |
| | Anthyllis | A. vulneraria[a] (21, 48) |
| | Astragalus | A. glycyphyllus[a] (47, 48) |
| | Caragana | C. arborescens[c] (38, 47, 48) |
| | Lupinus | Lupinus spp.[c] (47, 48) |
| | Ononis | O. repens[c] (47, 48) |
| | Ornithopus | O. sativus[b] (47, 48) |
| L. tetragonolobus | Lotus | L. uliginosus[a] (69) |
| | Anthyllis | A. vulneraria[a] (69) |
| | Tetragonolobus | T. purpureus (69) |
| L. uliginosus | Lotus | L. corniculatus[a] (48), |
| | | L. uliginosus[a] (21, 48, 69) |
| | Anthyllis | A. vulneraria[a] (48, 69) |
| | Astragalus | A. glycyphyllus[a] (48) |
| | Caragana | C. arborescens[c] (48) |
| | Dalea | D. alopecuroides[b] (46) |
| | Desmodium | D. aparines[b] (46) |
| | Glycine | G. wightii[b] (46) |
| | Lupinus | Lupinus spp.[c] (48) |
| | Macroptilium | M. atropurpureum[b] (46) |

Table 44. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. uliginosus (cont.) | Ononis | O. repens[c] (48) |
| | Ornithopus | O. sativus[b] (48) |
| | Sesbania | S. arabica[b] (46) |
| | Stylosanthes | S. guianensis[b] (46) |
| | Tetragonolobus | T. purpureus[a] (69) |

Table 45. Lupinus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. albus | Sesbania | S. arabica[b] (46) |
| L. angustifolius | Lupinus | L. angustifolius[a] (52, 69), |
| | | L. digitatus[a] (52), L. luteus[a] (69), |
| | | L. perennis[b] (69) |
| | Jacksonia | J. furcellata[b] (52) |
| | Kennedya | K. prostrata[b] (52) |
| | Ornithopus | O. sativus[a] (69) |
| L. densiflorus | Anthyllis | A. vulneraria[b] (1) |
| | Lotus | L. corniculatus[b] (1) |
| | | L. uliginosus[b] (11) |
| | Ornithopus | O. sativus[b] (1) |
| L. digitatus | Lupinus | L. angustifolius[a] (52), |
| | | L. digitatus[a] (52), Lupinus spp.[c] (37) |
| | Gastrolobium | G. spinosum[b] (52) |
| | Jacksonia | J. furcellata[b] (52) |
| L. hartwegii | Lupinus | L. perennis[c] (20) |
| | Baptisia | Baptisia spp.[c] (20) |
| | Crotalaria | C. sagittalis[c] (20) |
| | Lespedeza | Lespedeza spp.[c] (20) |
| L. luteus | Lupinus | L. angustifolius[a] (69), L. luteus[a] |
| | | (43, 69), L. perennis[a] (69), |
| | | Lupinus spp.[c] (43) |

Table 45. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| L. luteus (cont.) | Albizzia | A. moluccana[b] (43) |
| | Arachis | A. hypogoea[b] (61) |
| | Cajanus | C. indica[b] (61) |
| | Calopogonium | C. mucunoides[a] (43) |
| | Centrosema | C. pubescens[b] (43) |
| | Crotalaria | C. anagyroides[b] (43), |
| | | C. usaramoensis[b] (43) |
| | Cyamopsis | C. psoraloides[b] (61) |
| | Desmodium | D. gyroides[b] (43) |
| | Dolichos | D. biflorus[b] (61), D. lablab[b] (61) |
| | Indigofera | I. tinctoria[b] (61) |
| | Ornithopus | O. sativus[a] (43, 69) |
| | Phaseolus | P. aconitifolius[b] (61), |
| | | P. angularis[b] (43), P. aureus[b] (61), |
| | | P. radiatus[b] (61), P. trilobus[b] (61), |
| | | P. vulgaris[b] (43) |
| | Vigna | V. sinensis[b] (61) |
| L. perennis | Lupinus | L. angustifolius[c] (69), L. hartwegii[b] (20), |
| | | L. luteus[c] (69), L. perennis[a] (15, 69) |
| | Glycine | G. hispida[b] (20) |
| | Ornithopus | O. sativus[b] (15, 69) |
| | Vigna | V. sinensis[b] (20, 43) |

Table 45. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Lupinus spp. | Lupinus | L. digitatus[b] (37), L. luteus[b] (43), Lupinus spp.[a] (31, 53) |
| | Anthyllis | A. vulneraria[b] (48) |
| | Astragalus | A. glycyphyllus[b] (48) |
| | Calopogonium | C. mucunoides[b] (43) |
| | Centrosema | C. pubescens[b] (43) |
| | Crotalaria | C. anagyroides[b] (43), C. usaramoensis[b] (43) |
| | Glycine | G. max[a] (31, 37), Glycine spp.[c] (52) |
| | Lotus | L. corniculatus[b] (48, 52), L. uliginosus[b] (48) |
| | Medicago | M. sativa[b] (8) |
| | Ornithopus | O. sativus[b] (37, 43, 48 |
| | Phaseolus | P. vulgaris[b] (37, 43), P. angularis[b] (43) |
| | Psophocarpus | P. tetragonolobus[b] (43) |
| | Trifolium | T. repens[b] (8) |
| | Vigna | V. sinensis[b] (37, 43) |

Table 46. Macroptilium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. atropurpureum | Crotalaria | C. sagitallis[c] (46) |
| | Dolichos | D. biflorus[c] (46) |
| | Lotus | L. uliginosus[c] (46) |
| | Trema | T. aspera[c] (74) |
| M. bractearum | Psophocarpus | P. tetragonolobus[c] (33) |

Table 47. Macrotyloma

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. africanum | Phaseolus | P. vulgaris[b] (33) |
| | Psophocarpus | P. tetragonolobus[b] (33) |
| | Stylosanthes | S. angustifolia[b] (28), S. calcicola[b] (28), S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[b] (28), S. guianensis[b] (28, 33), S. hamata[b] (28), S. humilis[b] (28), S. leiocarpa[b] (28), S. macrocarpa[b] (28), S. montevidensis[b] (28), S. scabra[b] (28), S. subsericea[b] (28), S. sundaica[b] (28), S. viscosa[b] (28) |

Table 48. Medicago

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. aculeata | Medicago | M. laciniata[c] (12), M. minima[c] (12), M. orbicularis[c] (12), M. polymorpha[c] (12), M. praecox[c] (12), M. sativa[c] (12), M. trunculata[c] (12) |
| | Melilotus | M. indica[c] (12) |
| M. arabica | Medicago | M. arabica[a] (18), M. denticulata[c] (11), M. hispida[c] (18), M. laciniata[c] (11, 12), M. lupulina[c] (18), M. minima[c] (11, 12), M. orbicularis[c] (11, 12), M. polymorpha[c] (12) M. praecox[c] (11, 12), M. sativa[a] (11, 12, 18) M. sativa[a] (11, 12, 18), M. tribuloides[a] (11) M. trunculata[c] (12) |
| | Melilotus | M. alba[a] (18), M. indica[c] (12, 18), M. officinalis[a] (18) |
| | Trigonella | T. foenum-graecum[a] (18) |
| M. denticulata | Medicago | M. arabica[b] (11), M. denticulata[a] (11, 4 M. falcata[b] (11), M. laciniata[c] (11), M. lupulina[b] (11), M. minima[a] (11), M. orbicularis[a] (11), M. praecox[a] (11), M. rigidula[b] (11), M. sativa[a] (11, 43), M. tribuloides[a] (11) |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. denticulata (cont.) | Melilotus | M. alba[b] (11, 43), M. indica[b] (11), M. officinalis[b] (11) |
| | Phaseolus | P. vulgaris[b] (43) |
| M. falcata | Medicago | M. denticulata[c] (11), M. laciniata[c] (11, 12), M. minima[c] (11, 12), M. orbicularis[c] (11, 12), M. polymorpha[c] (12), M. praecox[c] (11, 12), M. sativa[c] (11, 12), M. tribuloides[c] (11), M. trunculata[c] (12), Medicago spp.[b] (15) |
| | Melilotus | M. indica[c] (12), Melilotus spp.[b] (15) |
| | Trigonella | T. foenum-graecum[b] (15) |
| M. hispida | Medicago | M. arabica[a] (18), M. hispida[a] (18), M. lupulina[c] (18), M. sativa[a] (18), Medicago spp.[b] (15) |
| | Melilotus | M. alba[a] (18), M. indica[c] (18), M. officinalis[a] (18), Melilotus spp.[b] (15) |
| | Trigonella | T. foenum-graecum[a] (15, 18) |
| M. laciniata | Medicago | M. aculeata[b] (12), M. arabica[b] (11), M. denticulata[b] (11), M. falcata[b] (11, 12) M. laciniata[a] (11, 12), M. littoralis[b] (12) M. lupulina[b] (12), M. minima[a] (11, 12) |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. laciniata (cont.) | Medicago (cont.) | M. orbicularis[a] (12), M. polymorpha[b] (12), M. praecox[a] (12), M. rigidula[b] (11, 12), M. rugosa[b] (12), M. sativa[a] (11, 12), M. scutellata[b] (12), M. tribuloides[a] (11), M. trunculata[a] (12) |
| | Melilotus | M. alba[b] (11, 12), M. indica[b] (11, 12), M. officinalis[b] (11, 12) |
| | Trigonella | T. suavissima[b] (12) |
| M. littoralis | Medicago | M. laciniata[b] (12), M. minima[c] (12), M. orbicularis[c] (12), M. polymorpha[c] (12), M. praecox[c] (12), M. sativa[c] (12), M. trunculata[c] (12) |
| | Melilotus | M. indica[c] (12) |
| M. lupulina | Medicago | M. arabica[b] (18), M. denticulata[c] (11), M. hispida[b] (18), M. laciniata[c] (12), M. lupulina[a] (15, 69), M. minima[c] (11, 12), M. orbicularis[c] (11, 12), M. polymorpha[c] (12), M. praecox[c] (11, 12), M. sativa[a] (11, 12, 15, 18, 69), M. tribuloides[c] (11), M. trunculata[c] (12) |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. lupulina (cont.) | Melilotus | M. alba[a] (15, 18, 69), M. indica[b] (12, 15), M. officinalis[a] (15, 18) |
| | Trigonella | T. foenum-graecum[a] (15, 18, 69) |
| M. minima | Medicago | M. aculeata[b] (12), M. arabica[b] (11, 12), M. denticulata[a] (11), M. falcata[b] (11, 12), M. laciniata[a] (11, 12), M. littoralis[b] (12), M. lupulina[b] (11, 12), M. minima[a] (11, 12), M. orbicularis[a] (11, 12), M. polymorpha[a] (12) M. praecox[a] (11, 12), M. rigidula[b] (11, 12), M. rugosa[b] (12), M. sativa[a] (11, 12), M. scutellata[b] (12), M. trunculata[a] (12) |
| | Melilotus | M. alba[b] (11, 12), M. indica[a] (11, 12), M. officinalis[b] (11, 12), M. tribuloides[a] (11) |
| | Trigonella | T. sauvissima[b] (12) |
| M. orbicularis | Medicago | M. aculeata[b] (12), M. arabica[b] (11, 12), M. denticulata[a] (11), M. falcata[b] (11, 12), M. laciniata[a] (11, 12), M. littoralis[b] (12), M. lupulina[b] (11, 12), M. minima[a] (11, 12) M. orbicularis[a] (11, 12), M. polymorpha[a] (1[illegible] |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. orbicularis (cont.) | Medicago (cont.) | M. praecox[a] (11, 12), M. rigidula[b] (11, 12), M. sativa[a] (11, 12), M. tribuloides[a] (11), M. trunculata[a] (12) |
| | Melilotus | M. alba[b] (11, 12), M. indica[a] (11, 12) |
| | Trigonella | T. suavissima[b] (12) |
| M. polymorpha | Medicago | M. aculeata[a] (12), M. arabica[b] (12), M. falcata[b] (12), M. laciniata[c] (12), M. littoralis[b] (12), M. lupulina[b] (12), M. minima[a] (12), M. orbicularis[a] (12), M. polymorpha[a] (12), M. praecox[a] (12), M. rigidula[b] (12), M. rugosa[b] (12), M. scutellata[b] (12), M. trunculata[a] (12) |
| | Melilotus | M. alba[b] (12), M. indica[b] (12), M. officinalis[b] (12) |
| | Trigonella | T. suavissima[b] (12) |
| M. praecox | Medicago | M. aculeata[b] (12), M. arabica[b] (11, 12), M. denticulata[a] (11), M. falcata[b] (11, 12), M. laciniata[a] (11), M. littoralis[b] (12), M. lupulina[b] (11, 12), M. minima[a] (11, 12), M. orbicularis[a] (11, 12), M. polymorpha[a] (12), |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. praecox (cont.) | Medicago (cont.) | M. praecox[a] (11, 12), M. rigidula[b] (11, 12), M. rugosa[b] (12), M. sativa[a] (11, 12), M. scutellata[b] (12), M. tribuloides[a] (11) |
| | Melilotus | M. alba[b] (11, 12), M. indica[a] (11, 12), M. officinalis[b] (11, 12) |
| | Trigonella | T. suavissima[b] (12) |
| M. rigidula | Medicago | M. denticulata[c] (11), M. laciniata[c] (11, 12), M. minima[c] (11, 12), M. orbicularis[c] (11, 12), M. polymorpha[c] (12), M. praecox[c] (11, 12), M. sativa[c] (11, 12), M. tribuloides[c] (11), M. trunculata[c] (12) |
| | Melilotus | M. indica[c] (12) |
| M. rugosa | Medicago | M. laciniata[c] (12), M. minima[c] (12), M. orbicularis[c] (12), M. polymorpha[c] (12), M. praecox[c] (12), M. sativa[c] (12) |
| | Melilotus | M. indica[c] (12) |
| M. sativa | Medicago | M. aculeata[b] (12), M. arabica[a] (1, 11, 12, 17, 18), M. denticulata[a] (11, 43), M. falcata[b] (11, 12), M. hispida[a] (18), |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. sativa (cont.) | Medicago (cont.) | M. laciniata[a] (11, 12), M. littoralis[b] (12) M. lupulina[a] (11, 12, 15, 69), M. minima[a] (11, 12), M. orbicularis[a] (11, 12), M. polymorpha[a] (12), M. praecox[a] (11, 12), M. rigidula[b] (11, 12), M. rugosa[b] (12), M. sativa[a] (5, 11, 12, 14, 15, 17, 18, 43, 51, 63, 69, 70), M. scutellata[b] (12), M. tribuloides[a] (11), M. trunculata[a] (12), Medicago spp.[a] (8, 15, 17, 33) |
| | Leucaena | L. leucocephala[c] (73) |
| | Lupinus | Lupinus spp.[c] (8) |
| | Melilotus | M. alba[a] (11, 12, 15, 18, 43, 46, 69), M. indica[a] (11, 12, 14, 18), M. officinalis[a] (11, 12, 15, 18), Melilotus spp.[a] (15, 37, 51, 70) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Pisum | P. sativum[b] (20) |
| | Trifolium | T. pratense[c] (8) |
| | Trigonella | T. foenum-graecum[a] (15, 17, 18, 51, 69), T. suavissima[b] (12) |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. scutellata | Medicago | M. laciniata[c] (12), M. minima[c] (12), M. orbicularis[c] (12), M. polymorpha[c] (12), M. praecox[c] (12), M. sativa[c] (12), M. trunculata[c] (12) |
| | Melilotus | M. indica[c] (12) |
| M. tribuloides | Medicago | M. arabica[b] (11), M. denticulata[a] (11), M. falcata[b] (11), M. laciniata[a] (11), M. lupulina[b] (11), M. minima[a] (11), M. orbicularis[a] (11), M. praecox[a] (11), M. rigidula[b] (11), M. sativa[a] (11), M. tribuloides[a] (11) |
| | Melilotus | M. alba[b] (11), M. indica[b] (11), M. officinalis[b] (11), Melilotus spp.[c] (15, 51) |
| M. trunculata | Medicago | M. aculeata[b] (12), M. arabica[b] (12), M. falcata[b] (12), M. laciniata[a] (12), M. littoralis[b] (12), M. lupulina[b] (12), M. minima[a] (10), M. orbicularis[a] (12), M. polymorpha[a] (12), M. praecox[a] (12), M. rigidula[b] (12), M. rugosa[b] (12), M. sativa[a] (12), M. scutellata[b] (12), M. trunculata[a] (12) |

Table 48. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. trunculata (cont.) | Melilotus | M. alba[b] (12), M. indica[a] (12), M. officinalis[b] (12) |
| | Trigonella | T. suavissima[b] (12) |
| Medicago spp. | Medicago | M. falcata[c] (15), M. hispida[c] (15), M. lupulina[c] (15), M. sativa[a] (8, 15, 17, 33), Medicago spp.[c] (17) |
| | Lotononis | L. bainseii[b] (58) |
| | Melilotus | M. alba[c] (15), M. indica[c] (15), M. officinalis[c] (15), Melilotus spp.[a] (16) |
| | Pisum | Pisum spp.[b] (8) |
| | Psophocarpus | P. tetragonolobus[b] (33) |
| | Trigonella | T. foenum-graecum[a] (15, 17) |

Table 49. Melilotus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. alba | Melilotus | M. alba[a] (15, 18, 43, 69), |
| | | M. indica[c] (12, 15), |
| | | M. officinalis[a] (15, 18), |
| | | Melilotus spp.[a] (15) |
| | Medicago | M. arabica[a] (18), M. denticulata[c] (43), |
| | | M. hispida[a] (18), M. laciniata[c] (12), |
| | | M. lupulina[a] (15, 18, 69), M. minima[c] (12), |
| | | M. orbicularis[c] (12), M. polymorpha[c] (12), |
| | | M. praecox[c] (12), M. sativa[a] (12, 15, 18, |
| | | 43, 46, 69), M. trunculata[c] (12), |
| | | Medicago spp.[a] (15) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Trigonella | T. foenum-graecum[a] (15, 18, 69) |
| | Vigna | Vigna spp.[c] (46) |
| M. indica | Melilotus | M. alba[b] (12, 15), M. indica[a] (12), |
| | | M. officinalis[b] (12), Melilotus spp.[b] (15) |
| | Medicago | M. aculeata[b] (12), M. arabica[b] (12, 18), |
| | | M. falcata[b] (12), M. hispida[b] (18), |
| | | M. laciniata[c] (12), M. littoralis[b] (12), |
| | | M. lupulina[b] (12, 15), M. minima[a] (12), |
| | | M. orbicularis[a] (12), M. polymorpha[a] (12), |
| | | M. praecox[a] (12), M. rigidula[b] (12), |
| | | M. rugosa[b] (12), M. sativa[a] (12, 15, 18) |

Table 49. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. indica (cont.) | Medicago (cont.) | M. scutellata[b] (12), M. trunculata[a] (12), Medicago spp.[b] (15) |
| | Trigonella | T. foenum-graecum[b] (15, 18), T. suavissima[b] (12) |
| M. officinalis | Melilotus | M. alba[a] (15, 18), M. indica[c] (12), M. officinalis[a] (18), Melilotus spp.[b] (15) |
| | Medicago | M. arabica[a] (18), M. hispida[a] (18), M. laciniata[c] (12), M. lupulina[a] (15, 18), M. minima[c] (12), M. orbicularis[c] (12), M. polymorpha[c] (12), M. praecox[c] (12), M. sativa[a] (12, 15, 18), M. trunculata[c] (12), Medicago spp.[b] (15) |
| | Trigonella | T. foenum-graecum[b] (15, 18) |
| Melilotus spp. | Melilotus | M. alba[c] (15), M. indica[c] (15), M. officinalis[c] (15), Melilotus spp.[a] (51, 70) |
| | Medicago | M. falcata[c] (15), M. hispida[c] (15), M. lupulina[c] (15), M. sativa[a] (15, 37, 51, 70) M. tribuloides[b] (37), Medicago spp.[a] (17) |
| | Trigonella | T. foenum-graecum[a] (15, 17, 51) |

Table 50. Mimosa

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. caesalpiniaefolia | | |
| | Mimosa | M. caesalpiniaefolia[a] |
| | Phaseolus | P. vulgaris[b] (22) |
| | Piptadenia | P. peregrina[b] (22) |
| | Teramnus | T. uncinatus[b] (22) |
| M. invisa | Mimosa | M. invisa[a] (43) |
| | Dalea | D. alopecuroides[c] (43) |
| | Leucaena | L. glauca[a] (43), L. leucocephala[a] (43) |
| | Phaseolus | P. lathyroides[b] (73), P. vulgaris[b] (43) |
| | Vigna | V. sinensis[b] (43) |
| M. pudica | Mimosa | M. pudica[a] (63) |
| | Leucaena | L. leucocephala[b] (73) |
| | Phaseolus | P. lathyroides[b] (73) |
| M. strigillosa | Mimosa | M. strigillosa[a] (45) |
| | Dalea | Dalea spp.[a] (45) |
| | Leucaena | L. glauca[a] (45) |
| | Sesbania | S. aegyptica[b] (45) |
| | Vigna | V. sinensis[c] (45) |

Table 51. Mucuna

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| M. capitata | Mucuna | M. capitata[a] (43) |
| | Albizzia | A. moluccana[c] (43) |
| | Calopogonium | C. mucunoides[c] (43) |
| | Centrosema | C. pubescens[c] (43) |
| | Crotalaria | C. usaramoensis[c] (43) |
| | Desmodium | D. gyroides[a] (43) |
| | Glycine | G. max[b] (43) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Tephrosia | T. maxima[a] (43), T. noctiflora[c] (43), T. vogelii[c] (43) |
| | Vigna | V. catjanj[c] (43), V. sinensis[b] (43) |
| M. gigantea | Vigna | V. sinensis[b] (2) |
| M. pruriens | Aeschynomene | A. indica[c] (66) |
| M. utilis | Mucuna | M. utilis[a] (15, 23, 51 |
| | Arachis | A. hypogoea[b] (15, 23) |
| | Canavalia | C. ensiformis[b] (23) |
| | Cassia | C. chamaecrista[b] (15) |
| | Desmodium | D. tortuosum[b] (23), Desmodium spp.[b] (15) |
| | Glycine | G. hispida[c] (3) |
| | Lespedeza | L. striata[a] (51), L. virginica[b] (15), Lespedeza spp.[a] (15, 23) |
| | Phaseolus | P. lunatus[a] (23) |
| | Vigna | V. sinensis[a] (15, 51), Vigna spp.[a] (23) |

Table 52. Onobrychis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| O. viciaefolia | Onobrychis | O. viciaefolia[a] (76) |
| | Coronilla | C. varia[a] (76) |
| O. sativa | Onobrychis | O. sativa[a] (69) |

Table 53. Ononis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| O. repens | Anthyllis | A. vulneraria[b] (48) |
| | Astragalus | A. glycyphyllus[b] (48) |
| | Lotus | L. corniculatus[b] (47, 48), |
| | | L. uliginosus[b] (48) |
| | Ornithopus | O. sativus[b] (48) |

Table 54. Ornithopus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| O. sativus | Ornithopus | O. sativus[a] (43, 69) |
| | Anthyllis | A. vulneraria[c] (47, 48) |
| | Astragalus | A. glycyphyllus[c] (48) |
| | Calopogonium | C. mucunoides[b] (43) |
| | Caragana | C. arborescens[c] (48) |
| | Crotalaria | C. anagyroides[a] (43), |
| | | C. usaramoensis[b] (43) |
| | Desmodium | D. gyroides[b] (43) |
| | Glycine | Glycine spp.[c] (37) |
| | Lotus | L. corniculatus[c] ( 47, 48) |
| | | L. uliginosus[c] (48) |
| | Lupinus | L. angustifolius[a] (69), L. densiflorus[c] (1), |
| | | L. luteus[a] (43, 69), L. perennis[c] (15, 69), |
| | | Lupinus spp.[c] (37, 43, 48) |
| | Ononis | O. repens[c] (48) |
| | Phaseolus | P. angularis[b] (43) |
| | Vigna | V. sinensis[a] (43) |

Table 55. Parkia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. africana | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |
| P. biglandulosa | Vigna | V. sinensis[b] (2) |
| P. javanica | Vigna | V. sinensis[b] (2) |

Table 56. Phaseolus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. aconitifolius | Phaseolus | P. aconitifolius[a] (7, 49, 61), P. atropurpurens[a] (7), P. aureus[a] (7, 61), P. calcaratus[a] (7), P. lathyroides[a] (3, 7), P. lunatus[c] (3), P. mungo[a] (7), P. radiatus[b] (61), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7, 61) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. hypogoea[a] (36, 61) |
| | Cajanus | C. indicus[a] (49, 61) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimisoides[c] (3) |
| | Crotalaria | C. juncea[b] (61) |
| | Cyamopsis | C. psoraloides[b] (61) |
| | Cytisus | C. scoparius[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Dolichos | D. biflorus[b] (38), D. lablab[b] (61) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. aconitifolius (cont.) | Glycine | G. max[a] (7, 54) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3), I. tinctoria[b] (61) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Lupinus | L. luteus[c] (61) |
| | Parkia | P. africana[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pisum | P. sativum[a] (16) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[a] (3, 61) |
| | Vigna | V. catjanj[c] (49), V. marina[c] (3), V. sinensis[a] (3, 7, 54, 64) |
| P. acutifolius | Glycine | G. max[b] (54) |
| | Vigna | V. sinensis[b] (54) |
| P. angularis | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Albizzia | A. moluccana[c] (43) |
| | Calopogonium | C. mucunoides[c] (43) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. angularis (cont.) | Caragana | C. Chamlagu[c] (43) |
| | Centrosema | C. mucunoides[c] (43) |
| | Crotalaria | C. anagyroides[c] (43), |
| | | C. usaramoensis[c] (43) |
| | Desmodium | D. gyroides[c] (43) |
| | Glycine | G. max[a] (43, 44, 54) |
| | Indigofera | I. decora[c] (43) |
| | Lupinus | L. luteus[c] (43), Lupinus spp.[c] (43) |
| | Mucuna | M. capitata[c] (43) |
| | Ornithopus | O. sativus[c] (43) |
| | Sesbania | S. aegyptica[c] (43) |
| | Stypholobium | S. japonicum[c] (43) |
| | Tephrosia | T. maxima[c] (43), T. noctiflora[c] (43), |
| | | T. vogelii[c] (43) |
| | Vicia | V. sativa[c] (43) |
| | Vigna | V. catjanj[c] (43), V. sinensis[a] (43, 54, 64) |
| P. angustifolia | Phaseolus | Phaseolus spp.[b] (15) |
| P. atropurpurens | Phaseolus | P. aconitifolius[a] (7), P. atropurpurens[a] |
| | | P. aureus[a] (7), P. calcaratus[a] (7), |
| | | P. lathyroides[a] (7, 73), P. mungo[a] (7), |
| | | P. ricciardianus[a] (7), P. sublobatus[a] (7), |
| | | P. trilobus[a] (7) |

Table 56. (continued)

| Test species | Organisms: Genus | |
|---|---|---|
| P. atropurpurens (cont.) | Arachis | A. hypogoea[a] (36) |
| | Galactia | G. striata[b] (55) |
| | Glycine | G. max[a] (7) |
| | Leucaena | L. leucocephala[c] (73) |
| | Vigna | V. sinensis[a] (7) |
| P. aureus | Phaseolus | P. aconitifolius[a] (7), P. atropurpurens[a] (7), P. aureus[a] (7, 63), P. calcaratus[a] (7), P. lathyroides[a] (3, 7), P. lunatus[c] (3), P. mungo[a] (7, 59), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7, 63) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Arachis | A. hypogoea[a] (36) |
| | Canavalia | C. campylocarpa[c] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Centrosema | C. pubescens[b] (13) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. retusa[a] (63) |
| | Cytisus | C. scoparius[c] (3) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. aureus (cont.) | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[c] (3) |
| | Glycine | G. max[a] (7) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[c] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Samanea | S. saman[c] (3) |
| | Sesbania | S. speciosa[a] (63) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (3, 7, 54, 61, 64) |
| P. calcaratus | Phaseolus | P. aconitifolius[a] (7), P. atropurpurens[a] (7), |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. calcaratus (cont.) | Phaseolus (cont.) | P. aureus[a] (7), P. calcaratus[a] (7), P. lathyroides[a] (7, 73), P. mungo[a] (7), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7) |
| | Glycine | G. max[a] (7) |
| | Vigna | V. sinensis[a] (7, 64, 73) |
| P. cutifolius | Vigna | V. sinensis[c] (64) |
| P. lathyroides | Phaseolus | P. aconitifolius[a] (3, 7), P. atropurpurens[a] (7, 73), P. aureus[a] (3, 7), P. calcaratus[a] (7, 73) P. lathyroides[a] (7, 9, 73), P. mungo[a] (7, 9), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7), Phaseolus spp.[c] (37) |
| | Abrus | A. precatorius[c] (73) |
| | Acacia | A. farnesiana[c] (73) |
| | Albizzia | A. stipulata[c] (73) |
| | Alysicarpus | A. vaginalis[c] (73) |
| | Arachis | A. hypogoea[c] (73), A. koa[b] (3) |
| | Cajanus | C. cajan[a] (3, 9, 73) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. lathyroides (cont.) | Calopogonium | C. caeruleum[c] (73), C. mimosoides[c] (73) |
| | Canavalia | C. ensiformis[c] (3) |
| | Cassia | C. mimosoides[c] (73) |
| | Centrosema | C. pubescens[c] (9, 73) |
| | Clitoria | C. ternatea[a] (3, 9, 73) |
| | Crotalaria | C. anagyroides[c] (73), C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cyamopsis | C. tetragonoloba[c] (9) |
| | Cytisus | C. scoparius[b] (3) |
| | Derris | D. elliptica[c] (73) |
| | Desmodium | D. distortum[c] (73), D. intortum[c] (73), D. microphyllum[c] (73), D. ovaliflorum[c] (73), D. purpureum[b] (3), D. sequax[c] (73), D. sessilifolium[c] (9), D. triflorum[c] (73), D. uncinatum[c] (9), Desmodium spp.[c] (9, 73) |
| | Dolichos | D. lablab[a] (3, 73) |
| | Erythrina | E. indica[b] (3) |
| | Flemingia | F. congesta[c] (73) |
| | Glycine | G. javanica[c] (9), G. max[a] (7, 9, 73), G. tabacina[c] (9), Glycine spp.[c] (37) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. lathyroides (cont.) | Indigofera | I. arrecta[c] (73), I. endecaphylla[c] (73), I. hirsuta[c] (9), I. suffruticosa[c] (73), I. trifoliata[c] (73) |
| | Lespedeza | L. hirta[c] (9), L. sericea[b] (3), L. stipulacea[b] (3), L. striata[c] (9) |
| | Mimosa | M. invisa[c] (73), M. pudica[c] (73) |
| | Psophocarpus | P. tetragonolobus[c] (73) |
| | Pterocarpus | P. indicus[c] (73) |
| | Pueraria | P. lobata[c] (73), P. phaseoloides[c] (73), P. thunberigiana[c] (9) |
| | Pultenea | P. villosa[c] (9) |
| | Samanea | S. saman[b] (3) |
| | Smithia | S. sensitiva[c] (73) |
| | Stizolobium | S. Deeringianum[c] (9, 73), S. utile[b] (3) |
| | Stylosanthes | S. gracilis[c] (9, 73), S. guianensis[b] (3) |
| | Tephrosia | T. candida[c] (73) |
| | Uraria | U. lagopoides[c] (73) |
| | Vigna | V. sesquipedalis[c] (73), V. sinensis[a] (2, 3, 7, 9, 73), V. unguiculata[b] (57), Vigna spp.[c] (73) |
| P. lunatus | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lunatus[a] (3, 16, 23, 30, 79) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. lunatus | Acacia | A. koa[c] (3) |
| (cont.) | Alysicarpus | A. vaginalis[c] (16) |
| | Arachis | A. hypogoea[a] (23, 30, 79), A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[a] (3, 16, 23) |
| | Cassia | C. chamaecrista[a] (16, 79), |
| | | C. leschenaultiana[b] (16), |
| | | C. mimosoides[c] (3) |
| | Clitoria | C. ternatea[b] (3, 23) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[a] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. purpureum[b] (23), D. sessilifolium[c] (16), |
| | | D. tortuosum[a] (23, 79) |
| | Dolichos | D. lablab[b] (3, 23) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[b] (3) |
| | Glycine | G. max[c] (30) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[a] (16), |
| | | I. pentosa[b] (16) |
| | Inga | I. laurina[c] (3) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. lunatus (cont.) | Lespedeza | L. hirta[c] (16), L. sericea[b] (3), L. stipulacea[b] (3), L. striata[c] (79), Lespedeza spp.[a] (23) |
| | Mucuna | M. utilis[a] (23) |
| | Piscidia | P. erythrina[c] (3) |
| | Pueraria | P. phaseoloides[c] (16) |
| | Stizolobium | S. utile[b] (3, 16) |
| | Stylosanthes | S. guianensis[a] (3) |
| | Tephrosia | T. candida[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (3, 30, 54), V. unguiculata[b] (57), Vigna spp.[a] (23, 79) |
| P. multiflorus | Phaseolus | P. vulgaris[b] (8), Phaseolus spp.[b] (15) |
| | Pisum | P. sativum[b] (8), Pisum spp.[b] (8) |
| | Trifolium | T. repens[b] (8) |
| | Vicia | V. faba[b] (8) |
| P. mungo | Phaseolus | P. aconitifolius[a] (7, 61), P. atropurpurens[a] (7), P. aureus[a] (7, 63) P. calcaratus[a] (7), P. lathyroides[a] (7, 9 P. mungo[a] (7, 63), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7, 63) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. mungo | Arachis | A. hypogoea[a] (36) |
| (cont.) | Cajanus | C. indicus[c] (61) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. juncea[b] (61), C. retusa[a] (63) |
| | Dalea | D. alopecuroides[c] (61) |
| | Glycine | G. max[a] (7, 61) |
| | Lupinus | L. luteus[c] (61) |
| | Sesbania | S. speciosa[a] (63) |
| | Vigna | V. sinensis[a] (7, 9, 61, 64) |
| P. radiatus | Phaseolus | P. aconitifolius[c] (61) |
| | Cajanus | C. indicus[c] (61) |
| | Dalea | D. alopecuroides[c] (61) |
| | Glycine | G. max[c] (61) |
| | Lupinus | L. luteus[c] (61) |
| | Vigna | V. sinensis[c] (61, 64) |
| P. ricciardianus | Phaseolus | P. aconitifolius[a] (7), P. atropurpurens[a] (7), P. aureus[a] (7), P. calcaratus[a] (7), P. lathyroides[a] (7), P. mungo[a] (7), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. ricciardianus | Glycine | G. max[a] (7) |
| (cont.) | Vigna | V. sinensis[a] (7) |
| P. trilobus | Phaseolus | P. aconitifolius[a] (7, 61), |
| | | P. atropurpurens[a] (7), |
| | | P. aureus[a] (7, 63), P. calcaratus[a] (7), |
| | | P. lathyroides[a] (7), P. mungo[a] (7, 63), |
| | | P. ricciardianus[a] (7), |
| | | P. sublobatus[a] (7), P. trilobus[a] (7, 63) |
| | Arachis | A. hypogoea[a] (36) |
| | Cajanus | C. indicus[c] (61) |
| | Clitoria | C. ternatea[a] (59, 64) |
| | Crotalaria | C. retusa[a] (63) |
| | Dalea | D. alopecuroides[c] (61) |
| | Glycine | G. max[a] (69) |
| | Lupinus | L. luteus[c] (61) |
| | Sesbania | S. aculeata[c] (61), S. speciosa[a] (63) |
| | Vigna | V. sinensis[a] (7, 63) |
| P. vulgaris | Phaseolus | P. angularis[c] (43), P. multiflorus[c] (8), |
| | | P. vulgaris[a] (33, 43, 63, 68, 69, 71, 79) |
| | | Phaseolus spp.[a] (15, 37) |
| | Calopogonium | C. mucunoides[c] (43) |
| | Caragana | C. arborescens[c] (38), C. Chamlagu[c] (43) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. vulgaris (cont.) | Crotalaria | C. anagyroides[c] (43), C. retusa[a] (63), C. usaramoensis[c] (43) |
| | Dalea | D. alopecuroides[a] (43, 68) |
| | Desmodium | D. gyroides[c] (43) |
| | Glycine | G. max[c] (43), Glycine spp.[c] (37) |
| | Leucaena | L. glauca[c] (43) |
| | Lupinus | L. luteus[c] (43), Lupinus spp.[c] (43, 73) |
| | Macrotyloma | M. africanum[c] (33) |
| | Medicago | M. denticulata[c] (43), M. sativa[c] (43) |
| | Melilotus | M. alba[c] (43) |
| | Mimosa | M. caesalpiniaefolia[c] (22) |
| | | M. invisa[c] (43) |
| | Mucuna | M. capitata[c] (43) |
| | Pisum | P. arvense[c] (43), P. sativum[c] (43) |
| | | Pisum spp.[c] (37) |
| | Psophocarpus | P. tetragonolobus[c] (33) |
| | Sesbania | S. aegyptica[c] (43), S. arabica[b] (46) |
| | Tephrosia | T. maxima[c] (43), T. noctiflora[c] (43) |
| | | T. vogelii[c] (43) |
| | Trifolium | T. lupinaster[c] (77), T. repens[c] (43), |
| | | Trifolium spp.[c] (37) |
| | Vicia | V. faba[a] (8, 71), V. nipponica[c] (43), |
| | | V. villosa[c] (43) |

Table 56. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. vulgaris (cont.) | Vigna | V. sinensis[a] (43, 46, 71) |
| Phaseolus spp. | Phaseolus | P. angustifolia[c] (15), P. lathyroides[c] (37), P. multiflorus[c] (15), P. vulgaris[a] (15, 37) |

Table 57. Piscidia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. erythrina | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 58. Pisum

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. arvense | Pisum | P. arvense[c] (69), P. sativum[a] (43, 69), Pisum spp.[b] (15, 69) |
| | Lathyrus | Lathyrus spp.[b] (15) |
| | Lens | L. esculenta[b] (15) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Vicia | V. sativa[c] (69), V. villosa[b] (15, 43) |
| | Vigna | V. sinensis[b] (43) |
| P. sativum | Pisum | P. arvense[a] (43, 69), P. sativum[a] (5, 33, 43, 49, 51, 63, 69, 71), Pisum spp.[a] (15, 37, 46) |
| | Cicer | C. arietinum[a] (49, 69) |
| | Lathyrus | L. japonicus[c] (26), L. odoratus[a] (51, 69), L. silvestus[a] (69), Lathyrus spp.[b] (15) |
| | Lens | L. esculenta[a] (15, 71) |
| | Phaseolus | P. aconitifolius[a] (49), P. vulgaris[b] (43) |
| | Psophocarpus | P. tetragonolobus[b] (33) |
| | Trifolium | T. alexandrinum[c] (71), Trifolium spp.[c] (37) |
| | Vicia | V. faba[a] (43, 69, 71), V. nipponica[c] (43), V. sativa[a] (43, 69), V. villosa[a] (15, 43, 69), Vicia spp.[a] (51) |

Table 58. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. sativum (cont.) | Vigna | V. catjanj[c] (49) |
| Pisum spp. | Pisum | P. arvense[c] (15), P. sativum[a] (15, 37, 46) |
| | | Pisum spp.[a] (41, 50, 65) |
| | Cicer | C. arietinum[b] (65) |
| | Dolichos | D. lablab[b] (46) |
| | Lathyrus | L. cicera[b] (46), L. latifolius[c] (15), |
| | | L. odoratus[a] (15, 41), Lathyrus spp.[c] (65) |
| | Lens | L. esculenta[a] (15, 41, 65) |
| | Medicago | M. sativa[c] (8), Medicago spp.[c] (8) |
| | Phaseolus | P. multiflorus[c] (8), P. vulgaris[c] (37) |
| | Sesbania | S. arabica[b] (46) |
| | Trifolium | T. pratense[a] (8, 50), T. repens[b] (37), |
| | | T. subterraneum[b] (37) |
| | Vicia | V. angustifolia[c] (15), |
| | | V. daysiecarpa[c] (15), V. faba[a] (15, 41, 65) |
| | | V. sativa[a] (15, 37, 65), |
| | | V. villosa[a] (15, 41, 65), |
| | | Vicia spp.[c] (41, 65) |

Table 59. Pongamia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. pinnata | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[b] (2, 3) |

Table 60. Prosopsis

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. chlensis | Arachis | A. hypogoea[b] (36) |
| P. cineraria | Arachis | A. hypogoea[b] (36) |
| P. juliflora | Arachis | A. hypogoea[b] (36) |

Table 61. Psophocarpus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. palustris | Psophocarpus | P. palustris[a] (66) |
| | Crotalaria | C. retusa[b] (66) |
| | Desmodium | D. asperum[b] (66) |
| | Indigofera | I. mummulariifolia[c] (66) |
| | Sesbania | S. leptocarpa[a] (66) |
| | Vigna | V. racemosa[b] (66), V. reticulata[c] (66), V. sinensis[b] (66) |
| P. tetragonolobus | Psophocarpus | P. tetragonolobus[a] (33) |
| | Arachis | A. hypogoea[a] (36) |
| | Lupinus | Lupinus spp.[c] (33) |
| | Macroptilium | M. bractearum[b] (33) |
| | Macrotyloma | M. africanum[c] (33) |
| | Medicago | Medicago spp.[c] (33) |
| | Phaseolus | P. lathyroides[b] (73), P. vulgaris[b] (33) |
| | Pisum | P. sativum[c] (33) |
| | Stylosanthes | S. guianensis[b] (33) |
| | Trifolium | Trifolium spp.[c] (33) |

Table 62. Psoralea

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. onobrychis | Psoralea | P. onobrychis[a] (4) |
| | Amorpha | A. fructicosa[c] (4) |
| | Lespedeza | L. stipulacea[c] (4) |

Table 63. Pterocarpus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. echinatus | Vigna | V. sinensis[b] (2) |
| P. indicus | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (2) |
| P. marsupium | Vigna | V. sinensis[b] (2) |
| P. vidalianus | Vigna | V. sinensis[b] (2) |

Table 64. Pueraria

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. javanica | Pueraria | P. javanica[a] (39, 60) |
| | Calopogonium | C. mucunoides[a] (39) |
| | Crotalaria | C. juncea[a] (60), C. usaramoensis[a] (60) |
| | Dolichos | D. lablab[a] (39) |
| | Indigofera | I. suffruticosa[a] (39) |
| | Tephrosia | T. candida[a] (60), T. noctiflora[a] (60) |
| P. lobata | Phaseolus | P. lathyroides[b] (73) |
| P. phaseoloides | Arachis | A. hypogoea[a] (36) |
| | Canavalia | C. ensiformis[b] (16) |
| | Cassia | C. chamaecrista[b] (16), |
| | | C. leschenaultiana[b] (16) |
| | Centrosema | C. plumieri[b] (9), C. pubescens[b] (13) |
| | Indigofera | I. endecaphylla[b] (16), I. hirsuta[b] (16), |
| | | I. pentosa[b] (16), I. suffruticosa[b] (16) |
| | Leucaena | L. leucocephala[c] (73) |
| | Phaseolus | P. lathyroides[b] (9, 73), P. lunatus[b] (16) |
| | Stizolobium | S. utile[b] (16) |
| | Vigna | V. sinensis[b] (9, 73), V. unguiculata[b] (57) |
| P. thunbergiana | Cyamopsis | C. tetragonoloba[b] (34) |
| | Phaseolus | P. lathyroides[b] (9) |
| | Vigna | V. sinensis[b] (9) |

Table 65. Pultenea

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| P. myrtoides | Vigna | V. unguiculata[b] (57) |
| P. villosa | Centrosema | C. plumieri[b] (9) |
| | Phaseolus | P. lathyroides[b] (9) |
| | Vigna | V. sinensis[b] (9), |
| | | V. unguiculata[b] (57) |

Table 66. Robinia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| R. pseudoacacia | Robinia | R. pseudoacacia[a] (69) |
| | Caragana | C. arborescens[c] (38) |

Table 67. Samanea

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. saman | Samanea | S. saman[a] (3) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[a] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. campylocarpa[c] (3), C. ensiformis[b] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[a] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. sericea[a] (3), L. stipulacea[b] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |

Table 67. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. saman (cont.) | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lathyroides[c] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[a] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (2, 3) |

Table 68. Sesbania

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. aculeata | Sesbania | S. aculeata[a] (61, 63), |
| | | S. speciosa[a] (63) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. retusa[a] (63) |
| | Dolichos | D. biflorus[b] (61) |
| | Phaseolus | P. trilobus[b] (61) |
| | Vigna | V. catjanj[b] (61) |
| S. aegyptica | Sesbania | S. aegyptica[a] (43, 45), |
| | | S. speciosa[c] (63) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. retusa[c] (63) |
| | Dalea | Dalea spp.[b] (45) |
| | Leucaena | L. glauca[a] (43, 45) |
| | Mimosa | M. strigillosa[c] (45) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Vigna | V. sinensis[b] (43) |
| S. arabica | Lotus | L. uliginosus[c] (46) |
| | Lupinus | L. albus[c] (46) |
| | Phaseolus | P. vulgaris[c] (46) |
| | Pisum | Pisum spp.[c] (46) |
| S. grandiflora | Leucaena | L. leucocephala[a] (73) |

Table 68. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. leptocarpa | Sesbania | S. leptocarpa[a] (66) |
| | Aeschynomene | A. indica[c] (66) |
| | Alysicarpus | A. rugosus[c] (66) |
| | Arachis | A. hypogoea[c] (66) |
| | Crotalaria | C. retusa[a] (66) |
| | Desmodium | D. asperum[a] (66) |
| | Glycine | G. max[b] (66) |
| | Indigofera | I. astragalina[c] (66), |
| | | I. mummularifolia[c] (66) |
| | Psophocarpus | P. palustris[a] (66) |
| | Vigna | V. racemosa[a] (66), V. reticulata[c] (66), |
| | | V. sinensis[b] (66) |
| S. speciosa | Sesbania | S. aculeata[a] (63), S. aegyptica[b] (63), |
| | | S. speciosa[a] (63) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. juncea[a] (63), C. retusa[a] (63) |
| | Dolichos | D. biflorus[b] (63) |
| | Glycine | G. max[a] (63) |
| | Phaseolus | P. aureus[a] (63), P. mungo[a] (63), |
| | | P. trilobus[a] (63) |
| | Vigna | V. catjanj[a] (63) |
| Sesbania spp. | Glycine | G. wightii[b] (46) |

Table 69. Stizolobium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. Deeringianum | Phaseolus | P. lathyroides[b] (9, 73) |
| | Vigna | V. sinensis[b] (9) |
| S. utile | Albizzia | A. retusa[c] (3) |
| | Alysicarpus | A. longifolius[c] (3, 16) |
| | Canavalia | C. campylocarpa[c] (3), |
| | | C. enformis[c] (16) |
| | Cassia | C. chamaecrista[c] (16), |
| | | C. mimosoides[c] (3) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. barbatum[c] (3), |
| | | D. sessilifolium[c] (16) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. abyssinica[c] (3) |
| | Indigofera | I. hirsuta[c] (16), |
| | | I. suffruticosa[c] (3) |
| | Inga | I. laurina[c] (3) |
| | Lespedeza | L. hirta[c] (16), L. sericea[c] (3) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. lathyroides[c] (3), P. lunatus[c] (3, 16) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |

Table 69. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. utile (cont.) | Pueraria | P. phaseoloides[c] (16) |
| | Samanea | S. saman[c] (3) |
| | Stylosanthes | S. guianensis[c] (3) |
| | Tephrosia | T. candida[c] (3), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Vigna | V. sinensis[a] (3, 54) |
| Stizolobium spp. | Vigna | V. unguiculata[b] (57) |

Table 70. Stylosanthes

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. angustifolia | Macrotyloma | M. africanum[c] (28) |
| S. calcicola | Macrotyloma | M. africanum[c] (28) |
| S. capitata | Stylosanthes | S. fruticosa[c] (28), S. guianensis[c] (28), S. hamata[c] (28), Stylosanthes spp.[c] (28) |
| | Arachis | A. prostrata[c] (28) |
| | Dolichos | D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. diphylla[c] (28) |
| S. erecta | Stylosanthes | S. fruticosa[c] (28), S. guianensis[c] (28, 56), S. hamata[c] (28), S. humilis[c] (56), S. mucronata[c] (56), Stylosanthes spp.[c] (28) |
| | Arachis | A. doigoi[c] (56), A. prostrata[c] (28, 56) |
| | Dolichos | D. africanus[c] (56), D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. dictiocarpa[c] (28), Z. diphylla[c] (28) |
| S. fruticosa | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[b] (28), S. guianensis[a] (28) S. hamata[a] (28), S. humilis[b] (28), S. scabra[b] (28), S. subsericea[b] (28) S. viscosa[b] (28), Stylosanthes spp.[c] (28) |
| | Arachis | A. prostrata[c] (28) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. fruticosa (cont.) | Dolichos | D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | A. diphyllum[c] (28) |
| S. gracilis | Stylosanthes | S. gracilis[a] (9) |
| | Arachis | A. hypogoea[b] (56) |
| | Centrosema | C. plumieri[b] (9), C. pubescens[a] (9) |
| | Desmodium | D. uncinatum[a] (9) |
| | Glycine | G. javanica[a] (9) |
| | Phaseolus | P. lathyroides[b] (9, 73) |
| | Vigna | V. sinensis[b] (9, 73) |
| S. guianensis | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28, 56), S. fruticosa[a] (28), S. guianensis[a] (3, 28, 35, 56), S. hamata[a] (28), S. humilis[a] (28, 56), S. montevidensis[b] (56), S. scabra[b] (28), S. subsericea[b] (28), S. viscosa[b] (28, 56), Stylosanthes spp.[c] (28) |
| | Acacia | A. koa[c] (3) |
| | Albizzia | A. lebbek[c] (3) |
| | Alysicarpus | A. vaginalis[c] (3) |
| | Andira | A. inermis[c] (3) |
| | Arachis | A. doigoi[c] (56), A. hypogoea[c] (56), A. koa[b] (3), A. marginata[c] (56), A. prostrata[c] (28, 56) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. guianensis (cont.) | Cajanus | C. cajan[b] (3) |
| | Calopogonium | C. mucuncides[a] (35) |
| | Canavalia | C. campylocarpa[c] (3), C. ensiformis[b] (3) |
| | Cassia | C. mimosoides[c] (3) |
| | Centrosema | C. pubescens[a] (35) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. sagitallis[c] (46), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[a] (3) |
| | Dalea | D. alopecuroides[c] (46) |
| | Derris | D. microphylla[c] (3) |
| | Desmodium | D. adcendens[a] (35), D. barbatum[c] (3), D. discolor[a] (35), D. purpureum[b] (3) |
| | Dolichos | D. africanus[c] (56), D. biflorus[c] (46), D. bilobus[c] (28), D. lablab[b] (3) |
| | Enterolobium | E. cyclocarpium[c] (3) |
| | Erythrina | E. indica[a] (3) |
| | Hymenaea | H. courbaril[c] (3) |
| | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), I. suffruticosa[c] (3), I. sumatrana[a] (35) |
| | Inga | I. laurina[c] (3) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. guianensis (cont.) | Lespedeza | L. sericea[a] (3), L. stipulacea[b] (3) |
| | Lonchocarpus | L. domingensis[c] (3) |
| | Lotus | L. uliginosus[c] (46) |
| | Macrotyloma | M. africanum[c] (28, 56) |
| | Parkia | P. africana[c] (3) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3), P. lathyroides[c] (3), P. lunatus[a] (3) |
| | Piscidia | P. erythrina[c] (3) |
| | Pongamia | P. pinnata[c] (3) |
| | Psophocarpus | P. tetragonolobus[c] (33) |
| | Samanea | S. saman[a] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Tephrosia | T. candida[a] (3, 35), T. noctiflora[c] (3), T. purpurea[c] (3) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. marina[c] (3), V. sinensis[a] (2, 3, 35) |
| | Zornia | Z. dictiocarpa[c] (56), Z. diphylla[c] (28) |
| S. hamata | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[a] (28), S. guianensis[a] (28), S. hamata[a] (28), S. humilis[a] (28, 56), S. scabra[b] (28), S. subsericea[b] (28), S. viscosa[b] (28), Stylosanthes spp.[c] (28) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. hamata (cont.) | Arachis | A. prostrata[c] (28, 56) |
| | Dolichos | D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. dictiocarpa[c] (56), Z. diphylla[c] (28) |
| S. humilis | Stylosanthes | S. erecta[b] (56), S. fruticosa[c] (28), S. guianensis[a] (28, 56), S. hamata[a] (28, 56), S. humilis[a] (56), S. montevidensis[b] (56), S. mucronata[a] (56), S. viscosa[b] (56), Stylosanthes spp.[c] (28) |
| | Arachis | A. doigoi[c] (56), A. marginata[c] (56), A. prostrata[c] (28, 56) |
| | Dolichos | D. africanus[c] (56) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. dictiocarpa[c] (56), Z. diphylla[c] (28) |
| S. leiocarpa | Macrotyloma | M. africanum[c] (28) |
| S. macrocarpa | Macrotyloma | M. africanum[c] (28) |
| S. montevidensis | Stylosanthes | S. guianensis[c] (56), S. humilis[c] (56), S. mucronata[c] (56) |
| | Arachis | A. doigoi[c] (56), A. hypogoea[c] (56), A. marginata[c] (56), A. prostrata[c] (56) |
| | Dolichos | D. africanus[c] (56) |
| | Macrotyloma | M. africanum[c] (28) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. montevidensis (cont.) | Zornia | Z. dictiocarpa[c] (56) |
| S. mucronata | Stylosanthes | S. erecta[b] (56), S. guianensis[a] (56), S. humilis[a] (56), S. montevidensis[b] (56), S. mucronata[a] (56), S. viscosa[b] (56) |
| | Arachis | A. doigoi[c] (56), A. hypogoea[c] (56), A. marginata[c] (56), A. prostrata[c] (56) |
| | Dolichos | D. africanus[c] (56) |
| | Zornia | Z. dictiocarpa[c] (56) |
| S. scabra | Stylosanthes | S. fruticosa[c] (28), S. guianensis[c] (28), S. hamata[c] (28), Stylosanthes spp.[c] (28) |
| | Arachis | A. prostrata[c] (28) |
| | Dolichos | D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. diphylla[c] (28) |
| S. subsericea | Stylosanthes | S. fruticosa[c] (28), S. guianensis[c] (28), S. hamata[c] (28), Stylosanthes spp.[c] (28) |
| | Arachis | A. prostrata[c] (28) |
| | Dolichos | D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. diphylla[c] (28) |
| S. sundaica | Macrotyloma | M. africanum[c] (28) |

Table 70. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| S. viscosa | Stylosanthes | S. fruticosa[c] (28), S. guianensis[c] (28, 56), S. hamata[c] (28), S. humilis[c] (56), S. mucronata[c] (56), Stylosanthes spp.[c] (28) |
| | Arachis | A. doigoi[c] (56), A. prostrata[c] (28, 56) |
| | Dolichos | D. africanus[c] (56), D. bilobus[c] (28) |
| | Macrotyloma | M. africanum[c] (28) |
| | Zornia | Z. dictiocarpa[c] (56), Z. diphylla[c] (28) |
| Stylosanthes spp. | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[b] (28), S. guianensis[b] (28), S. hamata[b] (28), S. humilis[b] (28), S. scabra[b] (28), S. subsericea[b] (28), S. viscosa[b] (28) |
| | Galactia | G. striata[b] (55) |

Table 71. Tephrosia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. candida | Tephrosia | T. candida[a] (35, 60), T. noctiflora[a] (60) |
| | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Canavalia | C. ensiformis[b] (3) |
| | Centrosema | C. pubescens[a] (35) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[a] (3, 60), C. spectabilis[b] (3), C. usaramoensis[a] (60) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35), D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), I. sumatrana[a] (35) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Leucaena | L. leucocephala[c] (73) |
| | Phaseolus | P. aconitifolius[b] (3), P. aureus[b] (3) P. lathyroides[b] (73), P. lunatus[b] (3) |
| | Pueraria | P. javanica[a] (60) |
| | Samanea | S. saman[b] (3) |

Table 71. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. candida (cont.) | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[a] (3, 35) |
| | Teramnus | T. uncinatus[a] (35) |
| | Vigna | V. sinensis[a] (2, 3, 35, 73) |
| T. falciformis | Arachis | A. hypogoea[a] (36) |
| T. maxima | Tephrosia | T. maxima[a] (43, 45), T. noctiflora[a] (45) |
| | | T. vogelii[c] (43) |
| | Albizzia | A. moluccana[a] (43, 45) |
| | Arachis | A. hypogoea[a] (45) |
| | Calopogonium | C. mucunoides[a] (43, 45) |
| | Centrosema | C. pubescens[a] (43, 45) |
| | Crotalaria | C. anagyroides[a] (43, 45) |
| | | C. usaramoensis[a] (43, 45) |
| | Desmodium | D. gyroides[a] (43, 45) |
| | Glycine | G. max[b] (43, 45) |
| | Mucuna | M. capitata[a] (43, 45) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Vigna | V. sinensis[a] (43, 45) |
| T. noctiflora | Tephrosia | T. candida[a] (60), T. maxima[a] (45), |
| | | T. noctiflora[a] (45, 60) |
| | Albizzia | A. moluccana[a] (45) |
| | Arachis | A. hypogoea[a] (45), A. koa[b] (3) |

Table 71. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. noctiflora (cont.) | Cajanus | C. cajan[b] (3) |
| | Calopogonium | C. mucunoides[a] (45) |
| | Canavalia | C. ensiformis[b] (3) |
| | Centrosema | C. pubescens[a] (45) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. anagyroides[a] (43, 45), C. juncea[a] (3, 60), C. spectabilis[b] (3), C. usaramoensis[a] (43, 45, 60) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. gyroides[a] (4[illegible]), D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Glycine | G. max[b] (44) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Mucuna | M. capitata[a] (43, 45) |
| | Phaseolus | P. aconitifolius[b] (3), P. angularis[b] (43), P. aureus[b] (3), P. vulgaris[b] (43) |
| | Pueraria | P. javanica[a] (60) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| | Vigna | V. sinensis[a] (2, 3, 43, 45) |

Table 71. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. purpurea | Arachis | A. hypogoea[a] (36), A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis[b] (3) |
| | Cytisus | C. scoparius[b] (3) |
| | Desmodium | D. purpureum[b] (3) |
| | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aconitifolius[a] (3, 61), |
| | | P. aureus[b] (3), P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stizolobium | S. utile[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| T. villosa | Arachis | A. hypogoea[a] (36) |
| T. vogelii | Tephrosia | T. maxima[b] (43) |
| | Calopogonium | C. mucunoides[b] (43) |
| | Centrosema | C. pubescens[b] (43) |
| | Crotalaria | C. anagyroides[b] (43) |
| | Desmodium | D. gyroides[b] (43) |
| | Glycine | G. max[b] (43, 44) |

Table 71. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. vogelii (cont.) | Leucaena | L. leucocephala[c] (73) |
| | Mucuna | M. capitata[b] (43) |
| | Phaseolus | P. angularis[b] (43), P. vulgaris[b] (43) |
| | Vigna | V. sinensis[b] (43) |

Table 72. Teramnus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. labialus | Arachis | A. hypogoea[b] (36) |
| | Vigna | V. sinensis[c] (61) |
| T. uncinatus | Teramnus | T. uncinatus[a] (35) |
| | Calopogonium | C. mucunoides[a] (35) |
| | Centrosema | C. pubescens[a] (35) |
| | Desmodium | D. adcendens[a] (35), D. discolor[a] (35) |
| | Indigofera | I. mucronata[a] (35), I. subulata[a] (35), |
| | | I. sumatrana[a] (35) |
| | Mimosa | M. caesalpiniaefolia[c] (22) |
| | Stylosanthes | S. guianensis[a] (3[illegible] |
| | Tephrosia | T. candida[a] (35) |
| | Vigna | V. sinensis[a] (35) |

Table 73. Tetragonolobus

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. purpureus | Tetragonolobus | T. purpureus (69) |
| | Anthyllis | A. vulneraria[a] (69) |
| | Lotus | L. uliginosus[a] (69) |

Table 74. Trifolium

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. alexandrinum | Trifolium | T. alexandrinum[a] (71), Trifolium spp.[b] (15) |
| | Pisum | P. sativum[b] (71) |
| | Vicia | V. faba[a] (71) |
| T. fragiferum | Trifolium | Trifolium spp.[c] (46) |
| T. hybridum | Trifolium | T. hybridum[a] (51, 69), T. incarnatum[a] (51, 69), T. pratense[a] (51, 69), T. repens[a] (51, 69) |
| T. incarnatum | Trifolium | T. hybridum[a] (51, 69), T. incarnatum[a] (51, 69), T. lupinaster[c] (77), T. pratense[a] (51, 69), T. repens[a] (51, 69), Trifolium spp.[b] (15) |
| T. lupinaster | Trifolium | T. incarnatum[b] (69), T. repens[b] (69) |
| | Phaseolus | P. vulgaris[b] (69) |
| T. medium | Trifolium | Trifolium spp.[b] (15) |
| T. pratense | Trifolium | T. hybridum[a] (51, 69), T. incarnatum[a] (51, 69), T. pratense[a] (5, 14, 15, 43, 51, 60), T. repens[a] (8, 43, 51, 69), Trifolium spp.[a] (15, 50) |
| | Caragana | C. arborescens[b] (38) |
| | Medicago | M. sativa[b] (8) |
| | Phaseolus | Phaseolus spp.[c] (50) |

Table 74. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. pratense | Pisum | Pisum spp.[a] (8, 50) |
| (cont.) | Vicia | V. faba[b] (8), Vicia spp.[c] (50) |
| T. repens | Trifolium | T. hybridum[a] (51, 69), T. incarnatum[a] (51, 69), T. lupinaster (77), T. pratense[a] (8, 43, 51, 69), T. repens[a] (51, 69), Trifolium spp.[a] (15, 33, 37) |
| | Lupinus | Lupinus spp.[c] (8) |
| | Phaseolus | P. multiflorus[c] (8), P. vulgaris[b] (43) |
| | Pisum | Pisum spp.[c] (37) |
| T. subterraneum | Trifolium | T. subterraneum[a] (42), Trifolium spp.[c] (37, 46) |
| | Phaseolus | Phaseolus spp.[c] (37) |
| | Pisum | Pisum spp.[c] (37) |
| | Vicia | V. hirsuta[c] (42), V. sativa[c] (42) |
| Trifolium spp. | Trifolium | T. alexandrinum[c] (15), T. fragiferum[b] (46), T. hybridum[c] (15), T. incarnatum[c] (15), T. medium[c] (15), T. pratense[a] (15, 50), T. repens[a] (15, 33, T. subterraneum[b] (15, 37, 46) |
| | Phaseolus | P. vulgaris[b] (37) |

Table 74. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Trifolium spp. (cont.) | Pisum | P. sativum[b] (37), Pisum spp.[a] (50) |
| | Psophocarpus | P. tetragonolobus[b] (33) |
| | Vicia | V. sativa[b] (37) |

Table 75. Trigonella

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| T. foenum-graecum | Medicago | M. arabica[a] (18), M. falcata[c] (18), |
| | | M. hispida[a] (15, 18), |
| | | M. lupulina[a] (15, 18, 69), |
| | | M. sativa[a] (15, 17, 18, 49, 69), |
| | | Medicago spp.[a] (15, 17) |
| | Melilotus | M. alba[a] (15, 18, 69), |
| | | M. indica[c] (15, 18), |
| | | M. officinalis[c] (15, 18), |
| | | Melilotus spp.[a] (15, 17, 51) |
| T. suavissima | Trigonella | T. foenum-graecum[a] (15, 17, 18, 51, 69) |
| | Medicago | M. laciniata[c] (12), M. minima[c] (12), |
| | | M. orbicularis[c] (12), M. polymorpha[c] (12), |
| | | M. praecox[c] (12), M. sativa[c] (12), |
| | | M. trunculata[c] (12) |
| | Melilotus | M. indica[c] (12) |

Table 76. Ulex

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| U. europaeus | Ulex | U. europaeus[a] (69) |
| | Glycine | G. max[b] (54) |
| | Vigna | V. sinensis[b] (54) |

Table 77. Vicia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. angustifolia | Vicia | Vicia spp.[b] (15) |
| | Lathyrus | Lathyrus spp.[b] (15) |
| | Lens | L. esculenta[b] (15) |
| | Pisum | Pisum spp.[b] (15) |
| V. daysiecarpa | Vicia | Vicia spp.[b] (15) |
| | Lathyrus | Lathyrus spp.[b] (15) |
| | Lens | L. esculenta[b] (15) |
| | Pisum | Pisum spp.[b] (15) |
| V. faba | Vicia | V. faba[a] (8, 41, 69, 71), |
| | | V. sativa[a] (69), V. villosa[b] (41, 43), |
| | | Vicia spp.[a] (15, 41, 65) |
| | Lathyrus | L. odoratus[b] (41), Lathyrus spp.[a] (15, 65) |
| | Lens | L. esculenta[a] (15, 41, 71) |
| | Phaseolus | P. multiflorus[c] (8), |
| | | P. vulgaris[c] (8, 43, 71) |
| | Pisum | P. sativum[a] (43, 69, 71), |
| | | Pisum spp.[a] (8, 15, 41, 65) |
| | Trifolium | T. alexandrinum[a] (71), |
| | | T. pratense[c] (8) |
| V. hirsuta | Trifolium | T. subterraneum[b] (42) |
| V. nipponica | Vicia | V. villosa[b] (43) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Pisum | P. sativum[b] (43) |

Table 77. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. obscura | Vicia | V. obscura[a] (35) |
| V. sativa | Vicia | V. faba[a] (69), V. sativa[a] (5, 14, 37, 69), V. villosa[a] (43, 69), Vicia spp.[a] (15, 65) |
| | Cicer | C. arietinum[a] (69) |
| | Lathyrus | L. odoratus[a] (69), L. silvestus[a] (69), Lathyrus spp.[a] (15, 65) |
| | Lens | L. esculenta[b] (15) |
| | Phaseolus | P. angularis[b] (43) |
| | Pisum | P. arvense[b] (69), P. sativum[a] (43, 69), Pisum spp.[a] (15, 37, 65) |
| | Trifolium | T. subterraneum[b] (42) |
| V. villosa | Vicia | V. faba[c] (41, 43), V. nipponica[c] (43), V. sativa[a] (43, 69), V. villosa[a] (43, 69), Vicia spp.[a] (15, 41, 65) |
| | Lathyrus | L. japonicus[c] (26), L. latifolius[c] (26), Lathyrus spp.[a] (15, 65) |
| | Lens | L. esculenta[b] (15) |
| | Phaseolus | P. vulgaris[b] (43) |
| | Pisum | P. arvense[c] (43), P. sativum[a] (43, 69), Pisum spp.[a] (15, 41, 65) |
| Vicia spp. | Vicia | V. angustifolia[c] (15), V. daysiecarpa[c] (15), V. faba[a] (15, 41, 65), V. sativa[a] (15, 65), V. villosa[a] (15, 41, 65), Vicia spp.[a] (51) |

Table 77. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Vicia spp. (cont.) | Cicer | C. arietinum[b] (65) |
| | Lathyrus | L. latifolius[c] (15), L. odoratus[a] (15, 41, 51) |
| | Lens | L. esculenta[a] (15, 41, 65) |
| | Pisum | P. arvense[c] (15), P. sativum[a] (15, 51), Pisum spp.[b] (41, 65) |
| | Trifolium | T. pratense[b] (5( |

Table 78. Vigna

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. catjanj | Vigna | V. catjanj[a] (63), V. sinensis[b] (43), V. unguiculata[b] (57) |
| | Albizzia | A. moluccana[b] (43) |
| | Calopogonium | C. mucunoides[b] (43) |
| | Centrosema | C. pubescens[b] (43) |
| | Clitoria | C. ternatea[a] (59, 63) |
| | Crotalaria | C. anagyroides[b] (43), C. retusa[a] (63), C. usaramoensis[b] (43) |
| | Desmodium | D. gyroides[b] (43) |
| | Glycine | G. max[c] (6) |
| | Mucuna | M. capitata[b] (43) |
| | Phaseolus | P. aconitifolius[b] (49), P. angularis[b] (43) |
| | Pisum | P. sativum[b] (49) |
| | Sesbania | S. aculeata[c] (61), S. speciosa[a] (63) |
| | Tephrosia | T. maxima[b] (43) |
| V. marina | Vigna | V. sinensis[b] (2, 3) |
| | Arachis | A. koa[b] (3) |
| | Cajanus | C. cajan[b] (3) |
| | Canavalia | C. ensiformis[b] (3) |
| | Clitoria | C. ternatea[b] (3) |
| | Crotalaria | C. juncea[b] (3), C. spectabilis (3) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. marina (cont.) | Dolichos | D. lablab[b] (3) |
| | Erythrina | E. indica[b] (3) |
| | Lespedeza | L. sericea[b] (3), L. stipulacea[b] (3) |
| | Phaseolus | P. aureus[b] (3), P. aconitifolius[b] (3) |
| | | P. lunatus[b] (3) |
| | Samanea | S. saman[b] (3) |
| | Stylosanthes | S. guianensis[b] (3) |
| V. owahuensis | Vigna | V. sinensis[b] (2) |
| V. racemosa | Vigna | V. racemosa[a] (66), V. reticulata[c] (66), |
| | | V. sinensis[b] (66) |
| | Aeschynomene | A. indica[c] 66) |
| | Alysicarpus | A. rugosus[c] (66) |
| | Arachis | A. hypogoea[c] (66) |
| | Crotalaria | C. retusa[a] 66) |
| | Desmodium | D. asperum[a] (66) |
| | Indigofera | I. astragalina[c] (66), |
| | | I. mummularifolia[c] (66) |
| | Psophocarpus | P. palustris[c] (66) |
| | Sesbania | S. leptocarpa[a] (66) |
| V. reticulata | Vigna | V. racemosa[b] (66), V. sinensis[b] (66) |
| | Crotalaria | C. retusa[b] (66) |
| | Desmodium | D. asperum[b] (66) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. reticulata (cont.) | Glycine | G. max[b] (66) |
| | Psophocarpus | P. palustris[b] (66) |
| | Sesbania | S. leptocarpa[b] (66) |
| V. sandwicensis | Vigna | V. sinensis[b] (2) |
| V. sesquipedalis | Vigna | V. sinensis[c] (64) |
| | Alysicarpus | A. vaginalis[c] (16) |
| | Arachis | A. hypogoea[b] (36) |
| | Baptisia | B. tinctoria[c] (16) |
| | Cassia | C. chamaecrista[c] (16) |
| | Crotalaria | C. mucronata[c] (16), C. sagitallis[c] (16), C. spectabilis[c] (16) |
| | Desmodium | D. sessilifolium[c] (16), D. tortuosum[c] (16) |
| | Erythrina | E. indica[c] (16) |
| | Leucaena | L. leucocephala[c] (73) |
| | Phaseolus | P. lathyroides[b] (73) |
| V. sinensis | Vigna | V. catjanj[c] (43), V. marina[c] (3), V. owahuensis[a] (2), V. racemosa[c] (66), V. reticulata[c] (66), V. sandwicensis[c] (2) V. sesquipedalis[b] (64), V. sinensis[a] (2, 3, 5, 7, 15, 30, 35, 40, 43, 45, 51, 61, 69, 71), Vigna spp.[c] (46, 54) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Abrus | A. precatorius[c] (15) |
| | Acacia | A. albida[a] (40), A. arabica[a] (2, 40), A. armata[c] (15), A. auriculaeformis A. baileyana[c] (15), A. catechu[c] (15 A. confusa[c] (2), A. decurrens[c] (2), A. ehrenbergina[a] (40), A. farnesiana[a] (2, 40), A. floribunda[c] (15), A. horrida[c] (2), A. koa[c] (2, 3), A. koaia[c] (2), A. linifolia[c] (15), A. longifolia[c] (15), A. macrantha[c] (2), A. melanoxylon[c] (15, 54) A. mellifera[c] (40), A. polycantha[c] (40), A. richii[c] (2), A. robusta[c] (2), A. scorpioides[c] (2), A. semperflora[b] (15), A. senegal[a] (40), A. sieberiana[a] (40), A. spadicigera[c] (2), A. verticillata[c] (15) |
| | Aeschynomene | A. indica[c] (66) |
| | Albizzia | A. acle[c] (2), A. chinensis[c] (2), A. katagensis[c] (2), A. lebbek[c] (2, 3), A. lebbekoides[c] (2), A. moluccana[a] (2, 43, 45), A. odoratissima[c] (2), |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Albizzia (cont.) | A. procera[c] (2), A. retusa[c] (2), A. saponaria[c] (2) |
| | Alysicarpus | A. longifolius[c] (2), A. rugosus[c] (2, 66), [illegible] |
| | Amphicarpa | A. monoica[c] (20, 26) |
| | Andira | A. inermis[c] (2, 3) |
| | Apios | A. americana[c] (20) |
| | Arachis | A. hypogoea[a] (15, 30, 36, 45, 73), A. koa[b] (3) |
| | Astragalus | A. sinicus[b] (45) |
| | Baptisia | B. alba[c] (16) |
| | Cajanus | C. cajan[a] (3, 9, 54, 73), C. indicus[a] (61, 64) |
| | Calopogonium | C. mucunoides[a] (35, 43, 45) |
| | Canavalia | C. campylocarpa[a] (2, 3), C. ensiformis[b] (3, 64) |
| | Caragana | C. Chamlagu[c] (43) |
| | Cassia | C. chamaecrista[a] (15, 16), C. fasciculata[c] (20), C. mimosoides[c] (2, 3) C. nictitans[c] (26, 32), C. pilifera[c] (2) |
| | Centrosema | C. pubescens[a] (9, 13, 35, 43, 45, 73) |
| | Clitoria | C. racemosa[c] (46), C. ternatea[a] (2, 3, 9) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Crotalaria | C. anagyroides[a] (2, 43, 45, 61, 73), C. assamica[c] (2), C. incana[c] (2), C. juncea[b] (2), C. mucronata[c] C. retusa[c] (57, 66), C. sagita (16, 20, 26), C. sericea[c] (2), C. spectabilis[a] (3, 16), C. usaramoensis[a] (2, 43, 45), Crotalaria spp.[c] (46) |
| | Cyamopsis | C. psoraloides[b] (61), C. tetragonoloba[a] (9, 64) |
| | Cytisus | C. scoparius[a] (3) |
| | Dalea | D. alopecuroides[c] (43, 61), Dalea spp.[b] (45) |
| | Derris | D. elliptica[c] (73), D. microphylla[c] (2, 3) |
| | Desmodium | D. adcendens[a] (35), D. asperum[c] (66), D. barbatum[c] (2, 3), D. cajanifolium[c] (2), D. canescens[c] (15), D. discolor[a] (2, 35), D. gyroides[a] (43, 45), D. illinoense[c] (15), D. ovaliflorum[c] (73), D. pabulare[c] (2), D. paniculatum[c] (26), D. sessilifolium[c] (9, 16), D. tortuosum[c] (16, 54), D. triflorum[c] (73), D. uncinatum[c] (2, 9), Desmodium spp.[c] (9) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Dolichos | D. biflorus[a] (61, 64), |
| | | D. lablab[a] (3, 26, 61, 64) |
| | Enterolobium | E. cyclocarpium[c] (2, 3) |
| | Erythrina | E. abyssinica[c] (2), E. arborea[c] (2), |
| | | E. berteroana[c] (2), E. corallodendron[c] (2), |
| | | E. cristagalli[c] (2), E. fusca[c] (2), |
| | | E. horrida[c] (2), E. indica[a] (2, 3, 16), |
| | | E. insignis[c] (41), E. micropteryx[c] (2), |
| | | E. monosperma[c] (2), E. poeppiginia[c] (2), |
| | | E. rubrinervia[c] (2), E. subumbrans[c] (2), |
| | | E. velutina[c] (2) |
| | Flemingia | F. congesta[c] (73) |
| | Genista | G. tinctoria[c] (15, 26) |
| | Glycine | G. javanica[c] (9), G. max[a] (7, 9, 24, 30, |
| | | 32, 44, 61, 71, 73), G. tabacina[c] (9), |
| | | Glycine spp.[c] (37, 46, 54) |
| | Hymenaea | H. courbaril[c] (2, 3) |
| | Indigofera | I. arrecta[c] (73), I. astragalina[c] (66), |
| | | I. decora[c] (43), I. endecaphylla[c] (73), |
| | | I. hirsuta[c] (2, 9), I. mucronata[a] (35), |
| | | I. mummulariifolia[c] (66), I. subulata[a] (35), |
| | | I. suffruticosa[c] (2, 3, 43). |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Indigofera (cont.) | I. sumatrana[a] (35), I. tinctoria[b] (61), I. trifoliata[c] (73) |
| | Inga | I. edulis[c] (2), I. laurina[c] (2, 3) |
| | Lespedeza | L. hirta[c] (9, 26), L. sericea[a] (3), L. stipulacea[b] (3), L. striata[c] (9, 15, 51, 54), L. virginica[a] (15), Lespedeza spp.[a] (15, 20) |
| | Leucaena | L. glauca[a] (35, 43, 45), L. leucocephala[c] (7 |
| | Lonchocarpus | L. domingensis[c] (2, 3), L. latifolius[c] (2), L. sericeus[c] (2), L. violaceous[c] (2) |
| | Lupinus | L. luteus[c] (43, 61), L. perennis[c] (20), Lupinus spp.[c] (37, 43) |
| | Mimosa | M. invisa[c] (43), M. strigillosa[b] (45) |
| | Mucuna | M. capitata[c] (43, 45), M. gigantea[c] (2), M. utilis[a] (15, 51) |
| | Ornithopus | O. sativus[a] (43) |
| | Parka | P. africanus[c] (2, 3), P. biglandulosa[c] (2) P. javanica[c] (2) |
| | Phaseolus | P. aconitifolius[a] (3, 7, 54, 61, 64), P. acutifolius[c] (54), P. atropurpurens[a] (7), P. angularis[a] (43, 54, 64), P. aureus[a] (3, 7, 54, 61, |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Phaseolus (cont.) | P. calcaratus[a] (7, 64, 73), P. cutifolius[b] (64), P. lathyroides[a] (2, 3, 7, 9, 73), P. lunatus[a] (3, 30, 54), P. mungo[a] (7, 9, 61, 64), P. radiatus[b] (61, 64), P. ricciardianus[a] (7), P. sublobatus[a] (7), P. trilobus[a] (7, 61), P. vulgaris[a] (43, 46, 71) |
| | Piscidia | P. erythrina[c] (2, 3) |
| | Pisum | P. arvense[c] (43), P. sativum[c] (43) |
| | Pongamia | P. pinnata[c] (2, 3) |
| | Psophocarpus | P. palustris[c] (43) |
| | Pterocarpus | P. echinatus[c] (2), P. indicus[c] (2), P. marsupium[c] (2), P. vidalianus[c] (2) |
| | Pueraria | P. phaseoloides[c] (9, 73), P. thunbergiana[c] (9) |
| | Pultenea | P. villosa[c] (9) |
| | Samanea | S. saman[a] (2, 3) |
| | Sesbania | S. aegyptica[a] (43, 45), S. leptocarpa[c] (66) |
| | Stizolobium | S. Deeringianum[c] (9), S. utile[a] (3, 54) |
| | Stylosanthes | S. gracilis[c] (9, 73), S. guianensis[a] (2, 3, 35) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. sinensis (cont.) | Stypholobium | S. japonicum[c] (43) |
| | Tephrosia | T. candida[a] (2, 3, 35, 73), T. [illegible] (43, 45), T. noctiflora[a] (36, 43, 45), T. purpurea[a] (2, 3, 61), T. vogelii[c] (43) |
| | Teramnus | T. uncinatus[a] (35) |
| | Ulex | U. europaeus[c] (54) |
| | Voandzeia | V. subterranea[c] (30) |
| V. unguiculata | Vigna | V. catjanj[c] (57), V. unguiculata[a] (57) |
| | Acacia | A. cunninghamii[c] (57), A. granitica[c] (57), A. podalyriaefolia[c] (57) |
| | Arachis | A. hypogoea[c] (57) |
| | Crotalaria | C. goreensis[c] (57), C. usaramoensis[c] (57), Crotalaria spp.[c] (57) |
| | Glycine | G. max[c] (57) |
| | Jacksonia | J. scoparia[c] (57) |
| | Lespedeza | L. sericea[c] (57), L. stipulacea[c] (57), L. striata[c] (57), Lespedeza spp.[c] (57) |
| | Leucaena | L. glauca[c] (57) |
| | Mirbelia | M. reticulata[c] (57) |
| | Phaseolus | P. lathyroides[c] (57), P. lunatus[c] (57) |

Table 78. (continued)

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. unguiculata (cont.) | Platylobium | P. formosum[c] (57) |
| | Pueraria | P. phaseoloides[c] (57) |
| | Pultenea | P. fillosa[c] (57), P. myrtoides[c] (57) |
| | Stizolobium | Stizolobium spp.[c] (57) |
| Vigna spp. | Vigna | V. sinensis[b] (46, 54), Vigna spp.[a] (23, 79) |
| | Arachis | A. hypogoea[b] (23) |
| | Canavalia | C. ensiformis[b] (23) |
| | Clitoria | C. ternatea[b] (23) |
| | Desmodium | D. tortuosum[b] (23) |
| | Dolichos | D. lablab[b] (23) |
| | Glycine | G. hispida[a] (23), G. max[b] (54), Glycine spp.[a] (67) |
| | Lespedeza | Lespedeza spp.[a] (23) |
| | Melilotus | M. alba[b] (46) |
| | Mucuna | M. utilis[a] (23) |
| | Phaseolus | P. lathyroides[b] (73), P. lunatus[a] (23, 79) |

Table 79. Voandzeia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| V. subterranea | Voandzeia | V. subterranea[a] (30) |
| | Arachis | A. hypogoea[a] (30) |
| | Glycine | G. max[c] (30) |
| | Phaseolus | P. lunatus[b] (30) |
| | Vigna | V. sinensis[b] (30) |

Table 8[illegible]. Zornia

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Z. dictiocarpa | Stylosanthes | S. erecta[b] (56), S. guianensis[b] (56), S. hamata[b] (56), S. humilis[b] (56), S. montevidensis[b] (56), S. mucronata[b] (56), S. viscosa[b] (56) |
| Z. diphylla | Stylosanthes | S. capitata[b] (28), S. erecta[b] (28), S. fruticosa[b] (28), S. guianensis[b] (28), S. hamata[b] (28), S. humilis[b] (28), S. scabra[b] (28), S. subsericea[b] (28), S. viscosa[b] (28) |

Table 81. Tested species of other genera

| Test species | Organisms cross inoculating with test species | |
|---|---|---|
| | Genus | Species |
| Abrus precatorius | Phaseolus | P. lathyroides[b] (73) |
| | Vigna | V. sinensis[b] (2) |
| Amorpha fructicosa | Psoralea | P. onobrychis[b] (4) |
| Apios americana | Glycine | G. hispida[b] (20) |
| | Vigna | V. sinensis[b] (20) |
| Atylosia scarabeoides | Arachis | A. hypogoea[a] (36) |
| Colutea arborescens | Caragana | C. arborescens[c] (38) |
| Cratylia floribunda | Cratylia | C. floribunda[b] (35) |
| Gastrolobium spinosum | Lupinus | L. digitatus[c] (52) |
| Gliricidia malococarpa | Arachis | A. hypogoea[a] (36) |
| Kennedya prostrata | Lupinus | L. angustifolius[c] (52) |
| Mirbelia reticulata | Vigna | V. unguiculata[b] (57) |
| Piptadenia peregrina | Mimosa | M. caesalpiniaefolia[c] (22) |
| Platylobium formosum | Vigna | V. unguiculata[b] (57) |
| Rafnia spp. | Aspalathus | A. linearis[b] (29) |
| Rhynchosia minima | Arachis | A. hypogoea[a] (36) |
| Smithia sensitiva | Phaseolus | P. lathyroides[b] (73) |
| Strophostyles helvola | Strophostyles | S. helvola[a] (15) |
| Stypholobium japonicum | Phaseolus | P. angularis[b] (43) |
| | Vigna | V. sinensis[b] (43) |
| Uraria lagopoides | Phaseolus | P. lathyroides[b] (73) |
| Wisteria spp. | Dalea | D. alopecuroides[b] (78) |