



CD4 MACHINE LOGISTICS FACT SHEETS

GUAVA EASYCD4™



MANUFACTURER INFO

Guava Technologies
25801 Industrial Boulevard
Hayward, CA 94545
USA

Customer Service Department:
Tel: +1-510-576-1400 (overseas)
+1-866-448-2827 (U.S. toll free)
Fax: +1-510-576-1500

Field Office
Kenya
Guava Technologies
Vision Plaza, 2nd Floor
Suite 18, Mombasa Road
P. O. Box 8545-00200
Nairobi
Tel: +254-20-828-893

MATERIALS PROVIDED

- Guava Personal Cell Analyzer (PCA™) with laptop, connections, and software
- 100 test kit reagents for CD4
- 100 test kit reagents for CD8
- 500 microcentrifuge tubes (1.5 mL) and matching caps
- 1 bottle of instrument cleaning solution (100 mL) (~6 months supply)
- Guava Check beads (~3–4 months supply)
- 1 extra flow cell (microcapillary flow cell)
- tool for cleaning and tool for removing the flow cell
- user's guide
- plastic cover for system and laptop keyboard
- 2–3 days of training from a field representative.

MATERIALS NOT PROVIDED

- pipettes (p20 and p200) and matching pipette tips
- vortex mixer
- test tube racks
- UPS and/or surge protector.

MATERIALS REGULARLY CONSUMED

- CD4 and CD8 reagents
- caps and tips
- microcentrifuge tubes
- cleaning solution

- disposable gloves
- chlorine bleach
- distilled water
- biosafety materials.

INSTRUMENT/ TECHNOLOGY COST

- \$35,000

PRECISION/ REPORTABLE RANGE

- <10% CV

SPACE REQUIREMENTS

Instrument:

- Area: 0.12 m² (1 ft x 1 ft)
- Height: 0.45–0.6 m (1.5–2 ft)
- Weight: <16 kg (35 lbs)

Working Space:

- 24-in.-wide countertop

TIME TO RESULT

- 35–40 minutes: 5-minute preparation, two 15-minute incubation periods
Sample preparation time depends on the number of samples. The maximum number of samples/day is 100–150.

RESULTS PROVIDED

- CD3/CD4 absolute
- CD3/CD8
- (CD4 percentage capability currently in trials)

REGULATORY STATUS

- FDA submission process has begun.



May 2006

This publication was produced for review by the United States Agency for International Development. It was prepared by the DELIVER project.



DELIVER
No Product? No Program. Logistics for Health

REAGENT INFORMATION

Number of reagents:

- 2 kits (CD4 and CD8)
- CD4 Kit: Anti-human CD4, Anti-human CD3, Antibody Dilution Buffer, Guava IX Lysing Solution
- CD8 Kit: Anti-human CD8, Anti-human CD3, Antibody Dilution Buffer, Guava IX Lysing Solution

Reagent cost:

- \$1*/test
* Average price in Africa. Excludes freight, duties, taxes, and distribution.

SHELF LIFE

- 12 months from manufacture
Reagents are never sent with less than 3 months shelf life and usually arrive in country with an average of 6 months shelf life.

Storage Requirements

Conditions

- 2–8°C (36–46°F)

Packaging

- The 2 reagent kits are available in 100-test, 500-test, or 1,000-test kits.
- The reagents are sent in plastic bags with minimal storage requirements.
- There is no minimum or maximum order quantity.

SAMPLE INFORMATION

- Blood collected by venipuncture should be stained within 24 hours of collection for optimal results.
- Unstained anticoagulated blood should be maintained at 20–25°C.
- Samples should be analyzed within 24 hours of staining.

Sample stability

- 48 hours after preparation when stored at room temperature.

Blood sample volume required

- minimum 10 µL whole blood.

QUALITY CONTROL COMMODITY INFORMATION

Number of runs

- 50 tests/kit
- Generally, Guava Check should be run daily.

Control run cost

- \$3/test (\$150/kit)

Shelf Life

- 12 months from manufacture
Reagents are never sent with less than 3 months shelf life and usually arrive in country with an average of 6 months shelf life.

STORAGE REQUIREMENTS

Conditions

- 2–8°C (36–46°F)

Packaging

- 3.5 in. x 3.5 in. x 6 in.

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

DELIVER
John Snow, Inc.
1616 N. Ft. Myer Drive
11th floor
Arlington, VA 22209
USA tel: 703-528-7474 fax 703-528-7480
deliver.jsi.com