



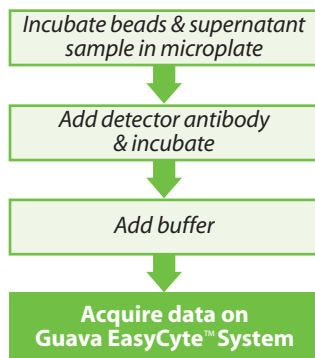
THE POWER OF

GUAVA® RAPIDQUANT™ MOUSE IgG KIT:

Efficient screening assay for antibody quantitation

Guava RapidQuant Mouse IgG Kit

- *Accurate, precise, and easy to perform*
- *Relevant dynamic range (2.5 to 40 µg/mL) to avoid sample dilution steps*
- *Screen from original clone plate—uses 2 µL sample*
- *Much faster than typical ELISAs*
- *No laborious wash steps*
- *Simple, rapid screening of 96-well plates*
- *Universal kit: detects all mouse IgG subtypes (γ1, γ2a, γ2b, γ3)*
- *Ideal for assaying with integrated robotic systems*



RAPID, RELIABLE & REPRODUCIBLE

The Guava RapidQuant Mouse IgG Kit is designed to easily and quickly quantify mouse IgG from hybridoma supernatants. One of the first in a new line of quantitative bead-based assays, the Guava RapidQuant Mouse IgG Kit provides highly accurate, reproducible results in a rapid, labor-saving assay. Whether you're screening for high producing clones or evaluating production levels, the RapidQuant Mouse IgG kit is the ideal solution for efficient antibody quantitation: no washing steps, no sample dilutions, one assay for all IgG subtypes, and robust—assay prep today, read plate tomorrow.

SIMPLE, EFFORTLESS PROTOCOL

Guava RapidQuant IgG kits, available for both human and mouse IgG, are bead-based kits for quickly assessing antibody concentrations in supernatant. Antibodies from hybridoma supernatant are captured on beads, where they are detected by fluorescently-labeled detector antibodies (Fig. 1). The fluorescent intensity of the beads in each sample is proportional to the antibody concentration of the supernatant. Using a standard curve generated with the provided mouse IgG standard, the absolute antibody concentration can be easily determined. From beginning to end, the time to answer is only half as long as a typical 5-hour ELISA assay.

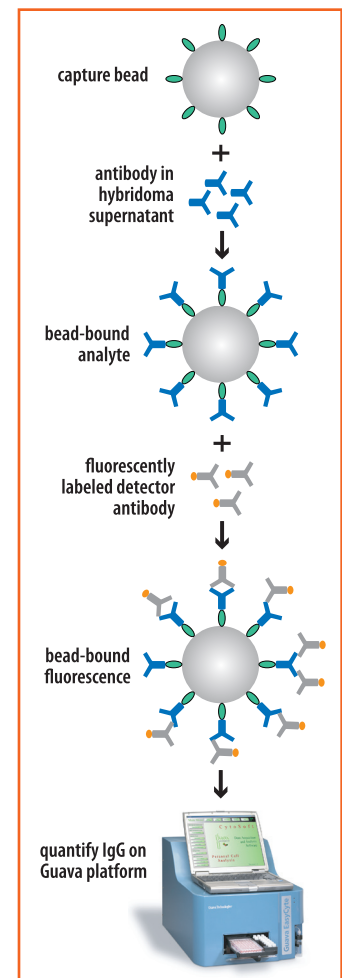


Figure 1. Principle of the Guava RapidQuant Mouse IgG Kit.

ACCURATE, PRECISE & SPECIFIC

The RapidQuant Mouse IgG Kit produces linear standard curves that are highly reproducible (Fig. 2). Reproducibility is demonstrated by the excellent agreement between replicates (Table 1), so that fewer replicates are needed, saving the user both time and money.

Table 1

Antibody Conc. (µg/mL)	Intra-Assay Precision (%CV*)
20	4.6
10	4.9
2.5	6.5
Average %CV	5.3

*6 replicates

Designed as a universal kit, the Guava RapidQuant Mouse IgG kit detects all mouse IgG subtypes, making it an ideal hybridoma screening assay. With RapidQuant, you can easily rank clones according to their Ab production levels. When tested across the range of the assay, samples of the three most common murine IgG subtypes were detected equivalently at all concentrations tested (Fig. 3).¹

Guava RapidQuant Mouse IgG results are also extremely stable. Unlike a colorimetric signal, which must be read within a narrow time window for linear results, the fluorescent signal is very stable and once the sample preparation is complete, the plate can be refrigerated and read up to 24 hours later (Fig. 4).

WELL-SUITED FOR LARGE ROBOTIC SYSTEMS

Large-scale hybridoma screening requires an assay that can be prepared ahead of the reading and an assay that is robust enough



to endure slight changes in timing between the preparation time and the read time. RapidQuant results are stable and robust, allowing users to prepare large numbers of plates, load them onto a plate handler, and acquire data on the Guava EasyCyte system data all night long.

ORDERING INFORMATION

Guava RapidQuant Mouse IgG Kit

96 tests, 1 plate

4500-0350

*Kit includes beads, buffers, detector antibody, and mouse IgG standard.

To Place an Order:

Fax: 510-576-1504

Email: orders@guavatechnologies.com

Phone: 510-576-1404 (U.S.) ■ 510-576-1403 (Intl)

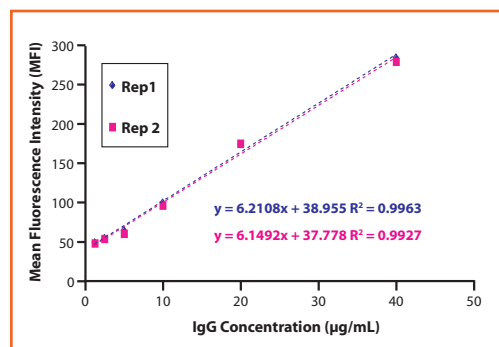


Figure 2. Representative standard curve for the Guava RapidQuant Mouse IgG kit demonstrates its excellent linearity and reproducibility.

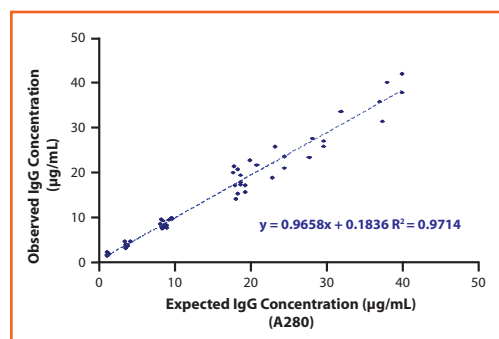


Figure 3. Guava RapidQuant Mouse IgG kit is accurate and precise across a broad concentration range. Various commercial antibodies of subtypes IgG1, IgG2a and IgG2b were diluted to specified concentrations (as determined by A280) and assayed with the RapidQuant Mouse IgG kit. There was excellent correlation between Guava values and the predicted values across the range of assay.

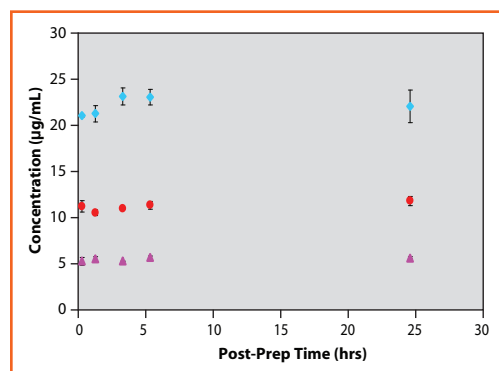


Figure 4. Guava RapidQuant Mouse IgG kit results are stable long after sample preparation. Plates may be prepared, refrigerated, and read the next day, a convenient feature when the procedure finishes near the end of the day.

¹The RapidQuant Mouse kit is less sensitive for the most infrequent subtype, IgG3, than the others.



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