



THE POWER OF

GUAVA® RAPIDQUANT™ HUMAN IgG KIT:

Simple, efficient antibody quantitation

Guava RapidQuant Human IgG Kit

- *Accurate, precise, and easy to perform*
- *Relevant dynamic range (0.5 to 20 µg/mL) to avoid dilution steps*
- *Screen from original clone plate—uses <10 µl sample*
- *Much faster than typical ELISAs*
- *No laborious wash steps*
- *Simple, rapid screening of 96-well plates*
- *Universal kit: detects all human IgG subtypes (γ1, γ2, γ3, γ4)*
- *Stable results: prepare samples today, read tomorrow*

ROBUST, RAPID, AND RELIABLE

Guava RapidQuant Human IgG kit is designed from step one to save time, labor, and expense. The Guava RapidQuant Human IgG kit eliminates the most tedious and laborious portions of traditional antibody titer methods, while providing highly accurate, reproducible results in a simple, robust assay. Whether you're screening for high producing clones or quantifying antibody levels for production, the Guava RapidQuant Human IgG kit is the solution for efficient antibody quantitation: no washing steps, no dilution of typical hybridoma supernatants, no degradation of colorimetric readouts, no need to worry about assaying for each human IgG subtype. All these problems are eliminated in the Guava RapidQuant Human IgG kit without sacrificing accuracy.

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 human 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.

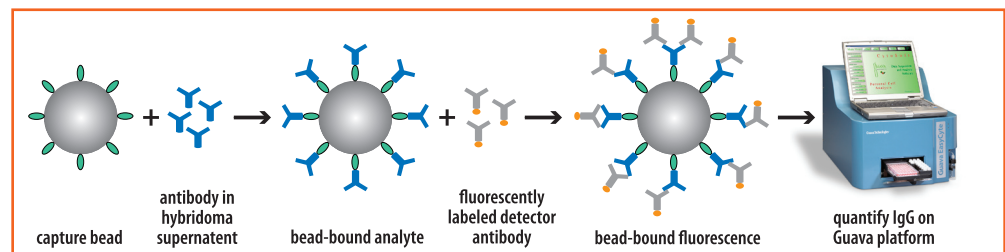
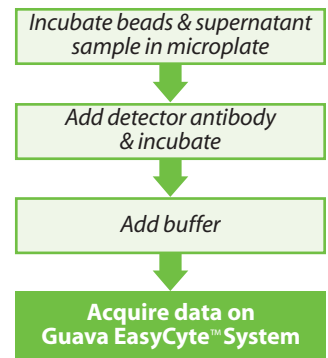


Figure 1. Principle of the Guava RapidQuant Human IgG Kit.

ACCURATE, PRECISE & SPECIFIC

The accuracy of the RapidQuant kit greatly surpasses those of current commercial ELISA kits as measured by correlation to IgG concentrations determined by A280 absorbance readings (Fig. 2). These results validate the predictive ability of the RapidQuant kits to give accurate concentrations of human IgG in supernatant media. 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)
15	2.58
7.5	4.70
3.75	4.13
Average %CV	3.80

The Guava RapidQuant Human IgG kit displays tremendous specificity for all four human IgG subtypes without interference from other isotypes such as IgM (Fig. 3). IgG from other species is also not detected. This flexibility allows for testing serum-containing hybridoma media without affecting the accuracy.

Guava RapidQuant Human 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 robust and once the sample preparation is complete, the plate can be refrigerated and read up to two days 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 whole stacks of plates, load

them onto a plate handler, and acquire data on the Guava EasyCyte system data all night long.

ORDERING INFORMATION

Guava RapidQuant Human IgG Kit

96 tests, 1 plate 4500-0340

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

To Place an Order:

Fax: 510-576-1504

Email: orders@guavatechnologies.com

Phone: 510-576-1404 (U.S.)

510-576-1403 (Intl)

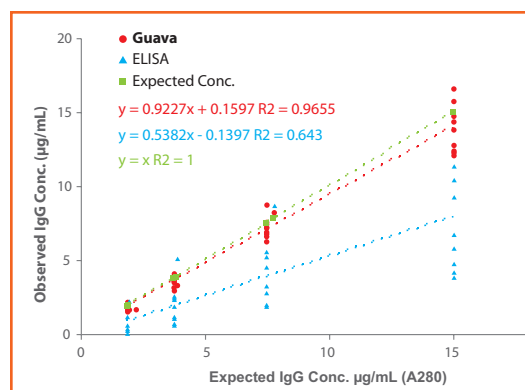


Figure 2. A number of antibodies of various subtypes were diluted out to various concentrations (stock conc. determined by A280) and tested with the Guava RapidQuant Human IgG kit and a commercially available ELISA kit. Results show an excellent correlation between predicted values and Guava values.

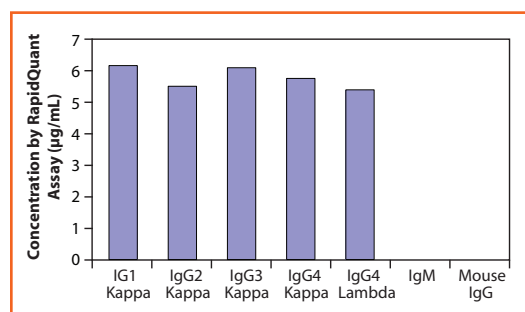


Figure 3. RapidQuant Human IgG Kit is specific for human IgG and detects all four human IgG subtypes without interference from human IgM or mouse IgG.

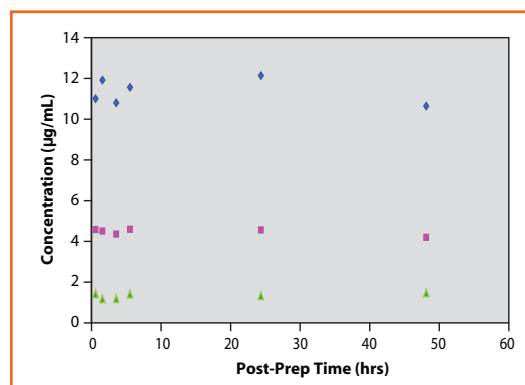


Figure 4. Extended of stability of RapidQuant Human IgG Results. A plate can be prepared and refrigerated for up to 48 hours prior to reading without affecting the assay results.



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