

Quantikine[®]

Complete Ready-To-Use ELISA Kits



Quantikine ELISA Kit Features

R&D Systems Quantikine ELISA Kits contain all of the components required to perform an immunoassay to measure the concentrations of natural or recombinant analytes.



Kit Components

- pre-coated 96-well microplate
- HRP-conjugated detection antibody
- mass-calibrated standard
- optimized Assay and Calibrator Diluents
- Wash Buffer
- Color Reagent A and B
- Stop Solution
- plate sealers
- detailed protocol

Ready-To-Use

Containing all of the supplies and reagents needed to perform an ELISA, Quantikine ELISA Kits are a complete solution for measuring target analyte concentrations.

Superior Performance

Carefully selected antibody pairs, precision automated microplate coating, and optimally formulated diluents ensure accurate results.

Rigorous Validation Testing

Validation testing for all Quantikine ELISA Kits includes intra- and inter-assay precision, assay linearity and recovery, as well as kit stability and assay drift. The detection of natural analyte is assessed in validated sample types and values are compared to published analyte concentrations.

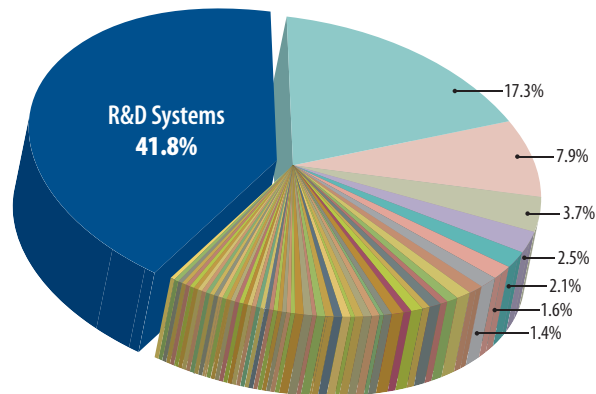
Extensive Analyte Selection

R&D Systems offers over 400 Quantikine ELISA Kits with a selection of analytes that support a range of biological processes, including:

- cytokine and growth factor biology
- inflammation
- cancer biology
- angiogenesis
- apoptosis
- neuroscience
- nephrology
- cardiovascular biology
- obesity/diabetes
- bone metabolism

Highly Referenced

R&D Systems' unrivaled reputation for quality has made Quantikine ELISA Kits the gold standard and most referenced ready-to-use ELISA in the industry. With over 25,000 product citations, our database makes it easy to view relevant references citing the use of Quantikine ELISA Kits. The citations database includes information on sample type and a direct link to the research article, making it simple to select the ideal Quantikine ELISA Kit.



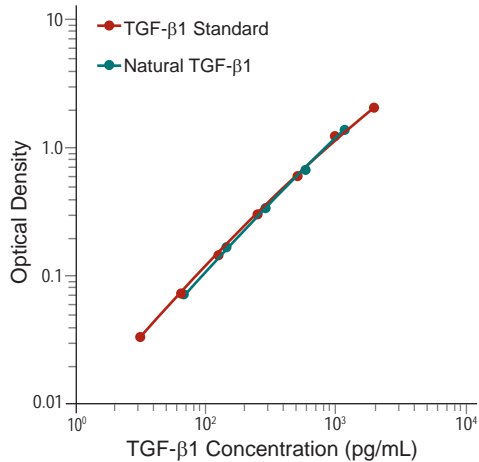
R&D Systems is the Most Referenced ELISA Manufacturer. A literature survey was conducted to determine the number of citations referencing the use of R&D Systems ELISA Kits compared to the number referencing ELISAs manufactured by other companies. The survey included 860 manuscripts that were published in one of 44 high impact journals from several different general research areas, including immunology, signal transduction, development, neuroscience, bone, endocrinology, and hematology. A total of 433 ELISA citations referencing immunoassays from 66 different vendors were identified in the survey.

The Highest Quality and Performance

In-house manufacturing and extensive validation testing ensure outstanding performance and consistency.

Accurate Detection of Natural Proteins

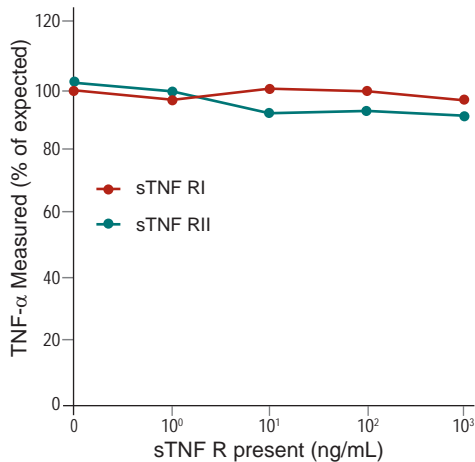
Antibody pairs recognize the supplied recombinant standard and the natural proteins in biological samples in a parallel manner, confirming that Quantikine ELISA Kits can be used to measure the relative mass values of the natural analyte. Protein standards are correlated to the NIBSC/WHO standard when available. R&D Systems has determined the ideal standard curve range for each assay, ensuring peak sensitivity and reproducibility of results.



Recognition of Recombinant and Natural Human TGF-β1. Serial dilutions of rhTGF-β1 standard (red line) or natural TGF-β1 present in serum (green line) were quantitated using the Human TGF-β1 Quantikine ELISA Kit (Catalog # DB100B). Quantikine ELISAs detect both recombinant and natural proteins in a parallel manner across a range of concentrations.

High Specificity

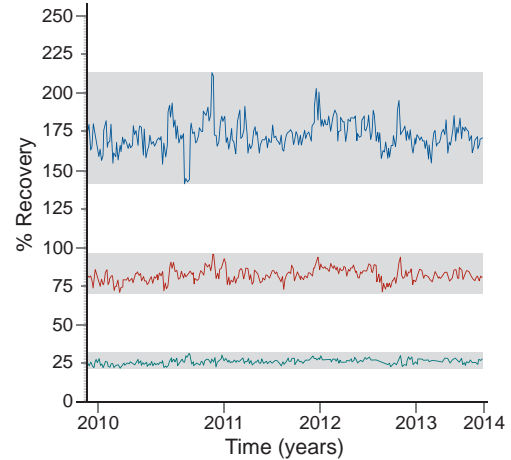
Every Quantikine ELISA Kit is extensively tested against related molecules to ensure no cross-reactivity or interference.



Quantikine ELISAs are Analyte-Specific. Concentrations of TNF-α ranging from 125-1,000 pg/mL were measured in the presence or absence of soluble TNF RI or soluble TNF RII using the Human TNF-α Quantikine ELISA Kit (Catalog # DTA00C). The presence of soluble TNF receptors did not affect TNF-α quantitation.

Confirmed Lot-to-Lot Consistency

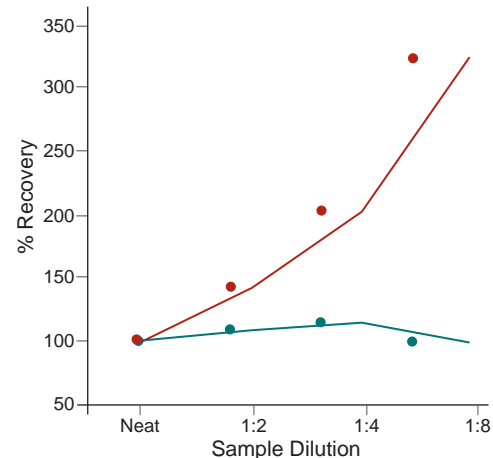
All lots are tested to ensure low background, a linear standard curve, consistent assay sensitivity, and a broad dynamic standard curve range. Consistent control values established during assay development ensure that sample data is comparable over time.



Quantitation of Human IL-6 in High, Medium, and Low Controls. High (blue line), medium (red line), and low (green line) controls are assayed with every manufactured lot of the Human IL-6 Quantikine Kit (Catalog # D6050). Controls for the Human IL-6 Quantikine ELISA Kit fall within acceptable ranges (gray bars) and remain constant from lot to lot.

Precise Quantitation of Target Analyte

Assay diluents are carefully optimized for each Quantikine ELISA Kit in order to minimize assay interference due to non-specific binding, antibody interference, and cross-reactivity, which can be caused by assay surfaces or endogenous substances present in biological samples. Spike recovery and assay linearity experiments ensure that data are accurate for all validated sample types.



Assay Linearity as a Measure of Immunoassay Accuracy. Heparin plasma samples spiked with recombinant human Thrombomodulin were serially diluted. Thrombomodulin was quantitated using the Human Thrombomodulin/CD141 Quantikine ELISA Kit (Catalog # DTHBDO; green line) or an ELISA from a competitor (red line). Assay linearity values for the Quantikine ELISA kit fell within acceptable values (90-110% of the undiluted samples), while samples measured using a competitor's ELISA did not (141-325% of the undiluted samples).

R&D Systems Full Line of Ready-to-Use ELISA Kits

R&D Systems offers a variety of ready-to-use ELISA kits that have been exhaustively tested for superior quality and reproducibility. They are available in a range of formats including colorimetric, and chemiluminescence-based kits for measuring intracellular and extracellular analytes.

Quantikine Colorimetric Sandwich ELISAs

Quantikine ELISA Kits – a wide selection of quantitative ELISAs for measuring molecules in biological fluids

Quantikine HS® Colorimetric Sandwich ELISAs, High Sensitivity

Quantikine HS ELISA Kits - greater sensitivity for samples containing very low levels of the target molecule

Quantikine IVD® Colorimetric ELISAs, for In Vitro Diagnostic Use

Quantikine IVD ELISA Kits – 510(k) cleared for *in vitro* diagnostic use

QuantiGlo® Chemiluminescent Sandwich ELISAs

QuantiGlo ELISA Kits with broad dynamic range

Parameter™ Colorimetric Competitive ELISAs

Parameter Kits – competitive assays for cyclic nucleotides, eicosanoids, hormones, and more

Surveyor™ IC (Intracellular) ELISAs

Microplate-based assays for measuring intracellular molecules

Biomarker Testing Service



Let the world leader in cytokine immunoassays analyze samples for your clinical trial or research project. In addition to analyte testing, the Biomarker Testing Service provides services to evaluate sample stability, custom-sample type evaluation, and sample collection and shipping kits. For more information, visit RnDSystems.com/Biomarkers.

Broad Analyte Selection on Multiple Platforms

R&D Systems' Biomarker Testing Service offers analyte analysis of a broad selection of analytes covering a range of biological processes using a variety of formats including plate- and bead-based immunoassays as well as bioactivity testing.

Expertise

Dedicated staff provide responsive and confidential service. Proactive solutions are generated based on experience and a thorough understanding of your unique study requirements.

Quality Assurance

R&D Systems' Quality Assurance Department provides complete project oversight.

Data Generation, Record Keeping, and Reporting

Biomarker Testing Service conducts all work confidentially, accurately, and responsively with respect to your needs and expectations. Electronic records are archived for sample testing, data acquisition, and results processing.

Sample Receipt, Storage, and Control

Standard Operating Procedures are used to control and document sample receipt, storage, handling, and processing. Sample storage is available in ≤ -60 °C or ≤ -20 °C freezers that are under 24 hour surveillance. Sample information is maintained by Freezerworks Unlimited® software in accordance with regulatory guidelines for automated audit trails.



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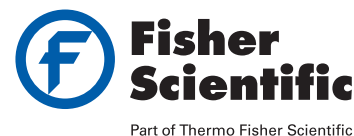
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