

INTENDED USE & DESCRIPTION

For use as quantitative controls for the determination of cytokine concentrations in biological fluids. Concentrations have been assigned using R&D Systems® Quantikine HS ELISA kits. Controls are prepared in diluted porcine serum with preservatives. They contain recombinant human cytokines at low, medium and high concentrations. Controls are supplied lyophilized.

STORAGE & STABILITY

Unreconstituted controls should be stored at 2-8 °C and are stable for at least 6 months from date of receipt. Depending on the analyte of interest, reconstituted controls may be stable when stored at < -20 °C. Users should evaluate the frozen stability of the controls in their application or discard after use.

REAGENT PREPARATION

Reconstitute each vial with the volume of deionized or distilled water indicated in the chart below.

PROCEDURE & EXPECTED VALUES

Controls should be used undiluted and assayed as unknown specimens.

The acceptable ranges for the analytes in these controls are printed below. Due to possible variations in techniques and methodologies, it is recommended that each laboratory determine its own target range. Laboratories using other test systems should establish their own acceptable ranges as these assays may produce different values.

Analyte	Catalog #	Kit Diluent	Water Recon. Volume	Units	Lot # 1449222	Lot # 1449223	Lot # 1449224
Human IL-1β HS	HSLB00D, SSLB00D, PHSLB00D	RD5T	2.0 mL	pg/mL	0.13-0.44	1.24-2.02	2.51-4.09
Human IL-4 HS	HS400, SS400, PHS400	HD5N	2.0 mL	pg/mL	0.71-1.28	4.05-6.61	8.07-13.3
		RD6U			0.67-1.11	3.60-5.87	7.30-11.9
Human IL-7 HS	HS750	RD5R	2.0 mL	pg/mL	0.31-0.76	2.08-3.56	4.03-6.79
		RD6-44			0.45-1.20	3.70-6.32	7.10-12.7
Human IL-8 HS	HS800	RD6Z	2.0 mL	pg/mL	2.42-5.34	15.0-24.5	30.5-49.8
Human IL-10 HS	HS100C, SS100C, PHS100C	RD6-10	3.0 mL	pg/mL	1.00-2.97	8.28-15.5	16.2-31.4
Human IL-12 p70 HS	HS120, SS120, PHS120	RD5R	4.0 mL	pg/mL	0.48-3.33	7.19-14.7	13.7-30.5
		RD6P			1.33-4.00	10.3-16.8	20.8-33.9
Human FGF basic HS	HSFB00D, SSFB00D, PHSFB00D	RD6-52	2.0 mL	pg/mL	0.33-2.10	4.11-7.58	9.00-15.2
Human GM-CSF HS	HSGM0	RD5C	4.0 mL	pg/mL	1.31-4.86	7.83-12.8	15.1-24.7
		RD6-11	2.0 mL		1.37-7.27	12.8-25.9	26.1-50.1

TECHNICAL HINTS & LIMITATIONS OF THE PROCEDURE

- The ranges were determined using R&D Systems Quantikine HS ELISA kits. If expected values are not obtained, verify that the lot numbers on the vials correspond with the lot numbers listed above and the correct volume of deionized or distilled water was used for reconstitution of the controls.
- The results obtained with these controls depend upon several factors associated with methods and instrumentation. Test systems other than those supplied by R&D Systems may result in values that differ from those printed on this product datasheet.