

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 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 (±3 SD) 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	Lot # P214780 (pg/mL)	Lot # P214783 (pg/mL)	Lot # P214787 (pg/mL)
Human CD14	DC140	RD5P	1.5 mL	533-1084	1570-2560	3047-4971
Human CNTF	DNT00	RD5P	2.0 mL	129-240	441-720	620-1187
		RD6-3	2.5 mL	142-294	456-906	777-1535
Human FGF basic	DFB50, SFB50, PDFB50	RD5-14	2.0 mL	37.7-90.6	131-262	234-459
Human Follistatin	DFN00	RD5-21	3.0 mL	918-2117	3272-6341	6877-11,612
		RD5L		1016-2566	4086-7419	8213-13,400
Human IL-5	D5000B, S5000B, PD5000B	RD5-5	3.0 mL	20.0-37.2	62.3-104	121-207
		RD6-11		22.0-38.7	66.9-109	128-209
Human IL-13	D1300B, S1300B, PD1300B	RD5R	3.0 mL	247-424	827-1349	1667-2719
		RD6-64		295-482	908-1481	1856-3028
Human MIP-1α	DMA00, SMA00, PDMA00	RD5K	2.5 mL	71.8-158	260-425	535-873
		RD6F		85.7-245	378-616	778-1269
Human MIP-1β	DMB00, SMB00, PDMB00	RD5K	5.0 mL	57.2-132	230-375	435-710
		RD6O	4.0 mL	84.4-166	327-534	655-1069
Human PDGF-AB	DHD00C, SHD00C, PDHD00C	RD5R	2.0 mL	41.9-97.5	155-291	300-554
		RD6-11		40.2-107	164-305	287-618
Human RANTES	DRN00B, SRN00B, PDRN00B	RD6-11 (1:2)	2.0 mL	89.1-218	388-633	771-1258
		RD6-11 (1:5)		80.3-218	380-621	762-1244
Human SCF	DCK00	RD5-5	1.5 mL	74.6-191	313-533	660-1077
		RD6E		77.2-327	389-831	834-1587
Human SDF-1α	DSA00, SSA00, PDSA00	RD6Q	2.0 mL	619-1530	2800-4568	5035-8215
TGF-β2	DB250, SB250, PDB250	RD5I	2.0 mL	91.6-339	433-735	868-1416
Human VEGF-D	DVED00	RD5R	1.5 mL	164-505	928-1543	1847-3098
		RD6P		168-561	867-1672	1827-3368

TECHNICAL HINTS & LIMITATIONS OF THE PROCEDURE

- The ranges were determined using R&D Systems Quantikine 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.