

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	Units	Lot # 1468221	Lot # 1468222	Lot # 1468223
Human AgRP	DAGR00	RD5-23	2.0 mL	pg/mL	23.1-50.3	85.9-143	156-289
		RD6-10			25.2-47.7	81.8-146	171-283
Human CA9	DCA900	RD6-12	2.0 mL	pg/mL	75.9-124	192-414	423-804
Human CD23	DCD230	RD5-3	2.0 mL	pg/mL	155-254	434-708	858-1401
Human FGF-19	DF1900	RD5P (1:3)	1.0 mL	pg/mL	77.2-142	233-396	479-782
Human FGF-21	DF2100	RD6-10 (1:2)	2.0 mL	pg/mL	150-255	454-772	908-1499
Human Galectin-3	DGAL30 SGAL30 PDGAL30	RD5K (undiluted)	3.0 mL	ng/mL	0.647-1.06	1.95-3.17	3.82-6.23
		RD6X (1:5)			0.615-1.00	1.90-3.09	3.77-6.14
Human IL-19	D1900	RD5K	3.0 mL	pg/mL	148-285	449-770	855-1530
Human Urinary TIM-1/KIM-1/HAVCR	DKM100	RD6Q (1:2)	2.0 mL	ng/mL	0.769-1.27	2.24-3.67	4.67-7.61
Human TIMP-4	DTM400	RD6-31 (1:5)	2.0 mL	pg/mL	358-627	869-1554	1666-3083
		RD6-31 (undiluted)			366-692	884-1801	1822-3461
Human VEGF-C	DVEC00	RD6U (1:5)	2.0 mL	pg/mL	500-815	1428-2330	2889-4713
		RD6U (1:2)			491-802	1425-2324	2885-4706

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.