

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 # 1516019	Lot # 1516023	Lot # 1516024
Human Cystatin C*	DSCTC0	RD5-24 (1:5)	4.0 mL	ng/mL	8.02-13.1	24.2-39.6	42.5-84.9
Human Endoglin	DNDG00	RD5K	3.0 mL	ng/mL	0.55-1.02	1.50-3.01	3.11-6.40
Human GCP-2**	DGC00	RD5-24	2.0 mL	pg/mL	130-227	399-651	816-1331
Human gp130	DGP00	RD5P (undiluted)	4.0 mL	ng/mL	0.67-1.20	2.02-3.53	3.85-7.03
		RD5P (1:5)	2.5 mL		0.90-1.47	2.67-4.36	5.28-8.61
Human IGFBP-3	DGB300, SGB300, PDGB300	RD5P (1:5)	2.5 mL	ng/mL	3.09-5.43	10.7-17.8	18.8-39.4
Human IL-8	D8000C, S8000C, PD8000C	RD5P (1:5)	2.5 mL	pg/mL	142-238	404-659	820-1338
		RD6Z	2.5 mL		143-233	399-651	826-1348
Human IL-23	D2300B, S2300B, PD2300B	RD5-16	3.0 mL	pg/mL	226-385	689-1125	1267-2067
Human IP-10***	DIP100, SIP100, PDIP100	RD5K	2.0 mL	pg/mL	27.6-54.4	86.2-149	172-281
		RD6Q	2.0 mL		27.1-51.7	87.1-148	173-297
Human I-TAC****	DCX110	RD5-21	2.5 mL	pg/mL	254-433	776-1266	1467-2394
		RD6P	2.5 mL		262-431	760-1298	1488-2427
Human Kallikrein 3/PSA	DKK300	RD5-19	2.5 mL	ng/mL	3.79-6.19	12.3-20.1	23.2-37.8
		QD6-5	2.5 mL		4.99-9.11	16.1-26.3	29.0-47.3
Human Pappalysin-1	DPPA00	RD6-14	2.0 mL	ng/mL	4.26-6.95	12.6-20.6	24.2-39.5
Human RBP4	DRB400	RD5-50 (1:5)	3.0 mL	ng/mL	7.89-12.9	20.6-33.6	41.0-66.9
Human CD117/c-kit	DSCR00	RD5P (1:3)	2.0 mL	ng/mL	2.75-6.50	9.40-16.1	19.7-32.1
		RD5P (undiluted)	2.0 mL		3.06-7.64	10.0-18.4	21.3-35.5
Human Survivin	DSV00	RD5-33 (1:6)	3.0 mL	pg/mL	137-311	390-866	871-1563
		RD6-47	3.0 mL		143-360	385-1015	834-1815

*Let controls sit for 30 minutes before use.

**Use within 30 minutes of reconstitution.

***Let controls sit for 20-40 minutes on the bench (no mixing). Vortex before using.

****Let controls sit for 15 minutes on the bench (no mixing or rocking). Gently invert 3-4 times before using.

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.