R&D SYSTEMS
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Quantikine™ Immunoassay Control Group 7

Catalog Number: QC22
Lot Number: P301615
Size: 1 vial/low, 1 vial/mid, 1 vial/high

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 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 (±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 # 1502493	Lot # 1502494	Lot # 1502495
Human Free BDNF	DBD00, SBD00, PDBD00	RD5K	2.0 mL	pg/mL	324-528	929-1515	1795-2929
		RD6P	4.0 mL		255-489	674-1546	1353-3173
Human CD40 Ligand	DCDL40, SCDL40, PDCDL40	RD5P	2.5 mL	pg/mL	261-495	889-1451	1377-2969
Human ENA-78	DX000	RD5L	2.0 mL	pg/mL	183-411	619-1009	1122-1830
		RD6-1	2.0 mL		183-317	543-887	872-1854
Human Eotaxin-2	DCC240B	RD5-5	2.0 mL	pg/mL	288-556	890-1558	1616-3122
		RD6-35	2.0 mL		396-754	1212-2136	2460-4014
Human Fas	DFS00	RD5L	2.0 mL	pg/mL	158-272	504-822	1043-1703
Human FGF acidic*	DFA00B	RD5-5	1.5 mL	pg/mL	145-239	445-765	898-1464
		RD6X	1.5 mL		140-264	500-838	998-1628
Human IL-12/IL-23 p40	DP400, SP400, PDP400	RD5P	2.0 mL	pg/mL	143-245	465-759	895-1461
		RD6-13	3.0 mL		110-234	418-682	822-1342
Human PDGF-BB	DBB00, SBB00, PDBB00	RD5K	2.0 mL	pg/mL	148-274	445-727	843-1375
		RD6-3	2.0 mL		145-285	480-782	934-1524
Human PIGF	DPG00, SPG00, PDPG00	RD5K	2.0 mL	pg/mL	64-132	189-331	364-594
		RD6-11	2.0 mL		63-145	200-398	387-759
Human TARC**	DDN00, SDN00, PDDN00	RD5-5	2.0 mL	pg/mL	152-248	454-740	895-1461
		RD6Q	2.0 mL		176-290	523-853	1041-1699

*Do not vortex.
**Let controls sit for 30-45 minutes without mixing prior to setting up the assay. Vortex immediately before use.

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.

bio-techne®
Global bio-techne.com info@bio-techne.com TEL +1 612 379 2956 **USA** TEL 800 343 7475 **Canada** TEL 855 668 8722
Europe | Middle East | Africa TEL +44 (0)1235 529449 **China** TEL +86 (21) 52380373