



QUALITY CONTROL RANGES

**MILLIPLEX® MAP Human High Sensitivity T Cell Magnetic Bead Panel Catalog # HSTCMAG-28SK,
HSTCMAG28SPMX13, HSTCMAG28SPMX21 or HSTC384PX21-MAG and
MILLIPLEX® MAP 384-Well High Sensitivity Human Cytokine Magnetic Bead Panel HSTC384-28K or HSTCMAG384-PX21
Control Catalog # HSTC-6028 Lot # HST-108 and HST-208**

Analyte	QC Level	Expected Range	Units	Analyte	QC Level	Expected Range	Units
HITAC	Control 1	56 – 115	pg/mL	IL-21	Control 1	7.2 – 15	pg/mL
	Control 2	244 – 508	pg/mL		Control 2	34 – 71	pg/mL
GM-CSF	Control 1	44 – 91	pg/mL	IL-4	Control 1	54 – 112	pg/mL
	Control 2	202 – 420	pg/mL		Control 2	266 – 552	pg/mL
Fractalkine	Control 1	506 – 1052	pg/mL	IL-23	Control 1	272 – 564	pg/mL
	Control 2	2499 – 5189	pg/mL		Control 2	1286 – 2671	pg/mL
IFN γ	Control 1	31 – 63	pg/mL	IL-5	Control 1	18 – 38	pg/mL
	Control 2	137 – 284	pg/mL		Control 2	87 – 181	pg/mL
IL-10	Control 1	52 – 108	pg/mL	IL-6	Control 1	5.7 – 12	pg/mL
	Control 2	254 – 527	pg/mL		Control 2	29 – 59	pg/mL
MIP-3 α	Control 1	22 – 45	pg/mL	IL-7	Control 1	12 – 25	pg/mL
	Control 2	98 – 204	pg/mL		Control 2	67 – 140	pg/mL
IL-12 (p70)	Control 1	18 – 37	pg/mL	IL-8	Control 1	9.4 – 20	pg/mL
	Control 2	87 – 181	pg/mL		Control 2	46 – 95	pg/mL
IL-13	Control 1	8.2 – 17	pg/mL	MIP-1 α	Control 1	11 – 22	pg/mL
	Control 2	40 – 84	pg/mL		Control 2	52 – 107	pg/mL
IL-17A	Control 1	25 – 52	pg/mL	MIP-1 β	Control 1	38 – 78	pg/mL
	Control 2	121 – 250	pg/mL		Control 2	163 – 339	pg/mL
IL-1 β	Control 1	16 – 33	pg/mL	TNF α	Control 1	14 – 29	pg/mL
	Control 2	79 – 164	pg/mL		Control 2	71 – 146	pg/mL
IL-2	Control 1	16 – 34	pg/mL				
	Control 2	81 – 169	pg/mL				

Note: The Quality Control Ranges are generated using serum matrix provided in the kit.

Quality Control Ranges in culture media are not tested.

HSTC-6028: HST-108.208 (23 March 2021)

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