

**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-111 and HST-211**

<u>Analyte</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>	<u>Analyte</u>	<u>QC Level</u>	<u>Expected Range</u>	<u>Units</u>
HITAC	Control 1	51 – 106	pg/mL	IL-21	Control 1	7.2 – 15	pg/mL
	Control 2	255 – 529	pg/mL		Control 2	35 – 72	pg/mL
GM-CSF	Control 1	42 – 88	pg/mL	IL-4	Control 1	53 – 111	pg/mL
	Control 2	208 – 433	pg/mL		Control 2	270 – 561	pg/mL
Fractalkine	Control 1	556 – 1154	pg/mL	IL-23	Control 1	267 – 555	pg/mL
	Control 2	2904 – 6032	pg/mL		Control 2	1305 – 2711	pg/mL
IFN γ	Control 1	46 – 95	pg/mL	IL-5	Control 1	19 – 39	pg/mL
	Control 2	196 – 407	pg/mL		Control 2	92 – 190	pg/mL
IL-10	Control 1	54 – 112	pg/mL	IL-6	Control 1	6.1 – 13	pg/mL
	Control 2	255 – 530	pg/mL		Control 2	32 – 66	pg/mL
MIP-3 α	Control 1	21 – 43	pg/mL	IL-7	Control 1	11 – 24	pg/mL
	Control 2	100 – 207	pg/mL		Control 2	66 – 138	pg/mL
IL-12 (p70)	Control 1	18 – 37	pg/mL	IL-8	Control 1	9.5 – 20	pg/mL
	Control 2	87 – 180	pg/mL		Control 2	48 – 99	pg/mL
IL-13	Control 1	7.9 – 16	pg/mL	MIP-1 α	Control 1	11 – 22	pg/mL
	Control 2	40 – 83	pg/mL		Control 2	52 – 108	pg/mL
IL-17A	Control 1	25 – 52	pg/mL	MIP-1 β	Control 1	37 – 77	pg/mL
	Control 2	127 – 264	pg/mL		Control 2	174 – 361	pg/mL
IL-1 β	Control 1	16 – 33	pg/mL	TNF α	Control 1	16 – 33	pg/mL
	Control 2	79 – 164	pg/mL		Control 2	80 – 166	pg/mL
IL-2	Control 1	17 – 35	pg/mL				
	Control 2	84 – 174	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-1101.211 (11 September 2024)

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