



QUALITY CONTROL RANGES
MILLIPLEX® MAP Human Th17 Magnetic Bead Panel
Catalog # HTH17MAG-14K, HT17MG-14K-PX25, HT17MAG14PMX25BK
Control Catalog # HTH17-6014 Lot # TH17-113.213

Analyte	QC Level	Expected Range	Units	Cytokine	QC Level	Expected Range	Units
IL-17F	Control 1	0.24 – 0.49	ng/mL	IL-2	Control 1	124 – 257	pg/mL
	Control 2	2.6 – 5.4	ng/mL		Control 2	1272 – 2642	pg/mL
GMCSF	Control 1	0.58 – 1.2	ng/mL	IL-21	Control 1	45 – 94	pg/mL
	Control 2	6.9 – 14	ng/mL		Control 2	464 – 965	pg/mL
IFNG	Control 1	102 – 211	pg/mL	IL-4	Control 1	0.23 – 0.48	ng/mL
	Control 2	1013 – 2297	pg/mL		Control 2	2.3 – 4.9	ng/mL
IL-10	Control 1	13 – 26	pg/mL	IL-23	Control 1	4.0 – 8.3	ng/mL
	Control 2	135 – 280	pg/mL		Control 2	39 – 81	ng/mL
CCL20/MIP3α	Control 1	59 – 122	pg/mL	IL-5	Control 1	65 – 136	pg/mL
	Control 2	580 – 1205	pg/mL		Control 2	673 – 1397	pg/mL
IL-12P70	Control 1	51 – 106	pg/mL	IL-6	Control 1	23 – 47	pg/mL
	Control 2	520 – 1079	pg/mL		Control 2	251 – 522	pg/mL
IL-13	Control 1	71 – 148	pg/mL	IL-17E/IL-25	Control 1	1.3 – 2.7	ng/mL
	Control 2	779 – 1660	pg/mL		Control 2	11.5 – 24	ng/mL
IL-15	Control 1	43 – 90	pg/mL	IL-27	Control 1	0.61 – 1.3	ng/mL
	Control 2	486 – 1010	pg/mL		Control 2	6.9 – 14	ng/mL
IL-17A	Control 1	127 – 264	pg/mL	IL-31	Control 1	0.50 – 1.0	ng/mL
	Control 2	1311 – 2722	pg/mL		Control 2	4.7 – 9.7	ng/mL
IL-22	Control 1	0.38 – 0.78	ng/mL	TNFα	Control 1	25 – 52	pg/mL
	Control 2	3.6 – 7.5	ng/mL		Control 2	251 – 522	pg/mL
IL-9	Control 1	89 – 185	pg/mL	TNF β	Control 1	0.41 – 0.85	ng/mL
	Control 2	930 – 1932	pg/mL		Control 2	3.9 – 8.1	ng/mL
IL-1β	Control 1	49 – 102	pg/mL	IL-28A	Control 1	0.51 – 1.1	ng/mL
	Control 2	494 – 1025	pg/mL		Control 2	5.3 – 11	ng/mL
IL-33	Control 1	59 – 123	pg/mL				
	Control 2	595 – 1236	pg/mL				