



QUALITY CONTROL RANGES

MILLIPLEX® MAP Human CD8 + T Cell Magnetic Bead Panel

Catalog # HCD8MAG-15K, HCD8MAG15K17PMX or HCD8MAG15KPX17BK

Control Catalog # HCD8-6015 Lot # HCD8-115 and HCD8-215

<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>
GM-CSF	Control 1	0.08 - 0.18	ng/mL	IL-4	Control 1	0.06 - 0.12	ng/mL
	Control 2	0.84 - 1.7	ng/mL		Control 2	0.54 - 1.1	ng/mL
sCD137	Control 1	0.06 - 0.13	ng/mL	IL-5	Control 1	0.04 - 0.07	ng/mL
	Control 2	0.65 - 1.36	ng/mL		Control 2	0.35 - 0.72	ng/mL
IFN γ	Control 1	0.03 - 0.06	ng/mL	IL-6	Control 1	0.009 - 0.02	ng/mL
	Control 2	0.28 - 0.58	ng/mL		Control 2	0.1 - 0.21	ng/mL
IL-10	Control 1	0.13 - 0.28	ng/mL	sFasL	Control 1	0.32 - 0.67	ng/mL
	Control 2	1.3 - 2.8	ng/mL		Control 2	3.2 - 6.6	ng/mL
Granzyme A	Control 1	1.6 - 3.3	ng/mL	MIP-1 α	Control 1	0.05 - 0.09	ng/mL
	Control 2	12 - 25	ng/mL		Control 2	0.32 - 0.66	ng/mL
IL-13	Control 1	0.05 - 0.1	ng/mL	MIP-1 β	Control 1	0.17 - 0.36	ng/mL
	Control 2	0.5 - 1	ng/mL		Control 2	1.8 - 3.8	ng/mL
Granzyme B	Control 1	0.06 - 0.13	ng/mL	TNF α	Control 1	0.01 - 0.02	ng/mL
	Control 2	0.51 - 1.05	ng/mL		Control 2	0.11 - 0.23	ng/mL
sFas	Control 1	7.5 - 16	ng/mL	Perforin	Control 1	0.27 - 0.55	ng/mL
	Control 2	83 - 172	ng/mL		Control 2	2.8 - 5.8	ng/mL
IL-2	Control 1	0.04 - 0.09	ng/mL				
	Control 2	0.44 - 0.92	ng/mL				

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

Quality Control values in culture media are not tested.

HCD8-6015: HCD8-115.215 (23 JUNE 2025 • SigmaAldrich.com/support • SigmaAldrich.com)

© 2025 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The vibrant M logo and MILLIPLEX are trademarks of Merck KGaA, Darmstadt Germany or its affiliates.