

Certificate of analysis

 Cat. number: **LHC6003M**

 Name: **Cytokine Human Magnetic 30-Plex Panel for Luminex™ Platform**

 Lot number: **448790-001**

 Expiry Date: **2027-05**

Components		Quantity	Lot	Store at
SM311/2	Hu 16-plex Standard (dissolve in 500µl)	2 x each	441112-000	2-8°C
SM310	Hu 14-Plex Standard (dissolve in 500µl)	2 x each	423091-000	2-8°C
LM318/2	Antibody Bead Solution (1x)	1 x 2,5ml	397294-000	2-8°C
BN318/2	Biotinylated Ab Conc. (10x)	1 x 1 ml	397164-000	2-8°C
DA05/2	Assay Diluent	1 x 15ml	420293-000	2-8°C
DP01	Streptavidin-RPE Diluent	1 x 12ml	420907-000	2-8°C
IB03	Incubation Buffer	1 x 12ml	423093-000	2-8°C
WB04	Wash Solution Concentrate (20x)	1 x 50ml	432118-000	2-8°C
SR08	Streptavidin-RPE Concentrate (10x)	1 x 1ml	421314-000	2-8°C
DB03	Biotin Diluent	1 x 12ml	432079-000	2-8°C
SVM104	Black Microplate Lid	1 each		2-8°C
SVM16	Plate Covers	8 each		2-8°C
SVM182	Flat bottom Plate (black)	1 each		2-8°C

Hu 16-plex Standard Lot#441112-000

Provided below is a table of Standard 1 (Std1) value for each analyte in each tube when prepared according to the "Prepare antigen standard" procedure of the Manual. All data were evaluated in a 2-hour incubation at room temperature.

Analyte	Std1 Concentration (pg/ml)	ULOQ / LLOQ (pg/ml) Determined in Assay Diluent
GM-CSF	4540	4540 / 6,23
IFN alpha	9240	9240 / 13
IFN gamma	3270	3270 / 4,49
IL-1 beta	7460	2487 / 10
IL-10	8520	8520 / 12
IL-12/IL-23p40	6920	6920 / 9,49
IL-13	10730	10730 / 15
IL-15	12920	12920 / 18
IL-17A (CTLA-8)	15960	15960 / 22
IL-2	9760	9760 / 13
IL-4	38035	12678 / 52
IL-5	8295	8295 / 11
IL-6	7150	7150 / 9,81
IL-7	12005	12005 / 16
IL-8 (CXCL8)	5980	5980 / 8,20
TNF alpha	2960	2960 / 4,06

Hu 14-Plex Standard Lot#423091-000

Provided below is a table of Standard 1 (Std1) value for each analyte in each tube when prepared according to the "Prepare antigen standard" procedure of the Manual. All data were evaluated in a 2-hour incubation at room temperature.

Analyte	Std1 Concentration (pg/ml)	ULOQ / LLOQ (pg/ml) Determined in Assay Diluent
EGF	5050	5050 / 6,93
Eotaxin (CCL11)	3900	3900 / 5,35
FGF-2	4250	4250 / 5,83
G-CSF (CSF-3)	51900	51900 / 71
HGF	9800	9800 / 13
IL-1RA	98700	98700 / 135
IL-2R	19000	19000 / 26
IP-10 (CXCL10)	2000	2000 / 2,74
MCP-1 (CCL2)	14700	14700 / 20
MIG (CXCL9)	2750	2750 / 3,77
MIP-1 alpha (CCL3)	12800	12800 / 18
MIP-1 beta (CCL4)	10300	10300 / 14
RANTES (CCL5)	12800	4267 / 18
VEGF-A	1800	1800 / 2,47

Antibody Bead Solution (1x) Lot#397294-000

Target Name	Bead Number	Concentration Std1	Standard
EGF	33	5050 pg/ml	Hu 14-Plex Standard
Eotaxin (CCL11)	22	3900 pg/ml	Hu 14-Plex Standard
FGF-2	12	4250 pg/ml	Hu 14-Plex Standard
G-CSF (CSF-3)	14	51900 pg/ml	Hu 14-Plex Standard
GM-CSF	27	4540 pg/ml	Hu 16-plex Standard
HGF	35	9800 pg/ml	Hu 14-Plex Standard
IFN alpha	43	9240 pg/ml	Hu 16-plex Standard
IFN gamma	38	3270 pg/ml	Hu 16-plex Standard
IL-1 beta	13	7460 pg/ml	Hu 16-plex Standard
IL-10	15	8520 pg/ml	Hu 16-plex Standard
IL-12/IL-23p40	20	6920 pg/ml	Hu 16-plex Standard
IL-13	18	10730 pg/ml	Hu 16-plex Standard
IL-15	30	12920 pg/ml	Hu 16-plex Standard
IL-17A (CTLA-8)	25	15960 pg/ml	Hu 16-plex Standard
IL-1RA	51	98700 pg/ml	Hu 14-Plex Standard
IL-2	54	9760 pg/ml	Hu 16-plex Standard
IL-2R	61	19000 pg/ml	Hu 14-Plex Standard
IL-4	77	38035 pg/ml	Hu 16-plex Standard
IL-5	34	8295 pg/ml	Hu 16-plex Standard
IL-6	19	7150 pg/ml	Hu 16-plex Standard
IL-7	55	12005 pg/ml	Hu 16-plex Standard
IL-8 (CXCL8)	78	5980 pg/ml	Hu 16-plex Standard
IP-10 (CXCL10)	56	2000 pg/ml	Hu 14-Plex Standard
MCP-1 (CCL2)	29	14700 pg/ml	Hu 14-Plex Standard
MIG (CXCL9)	63	2750 pg/ml	Hu 14-Plex Standard
MIP-1 alpha (CCL3)	26	12800 pg/ml	Hu 14-Plex Standard
MIP-1 beta (CCL4)	28	10300 pg/ml	Hu 14-Plex Standard
RANTES (CCL5)	21	12800 pg/ml	Hu 14-Plex Standard
TNF alpha	52	2960 pg/ml	Hu 16-plex Standard
VEGF-A	36	1800 pg/ml	Hu 14-Plex Standard

Analytical information:

This product has been tested by Quality Control and passed internal specifications.

Quality control: