



HAMSTER CYTOKINE PANEL 1 (9-PLEX)

CERTIFICATE OF ANALYSIS

(Part ID: H101-K; Lot ID: K23372)

Use

For the detection of 9 hamster cytokines/chemokines (**IL-10, IL-2, IL-4, IL-6, IFN γ , MCP-1, MIP-1 α , TNF α & VEGF**) in serum, plasma, tissue homogenates, and bronchial lavage.

Kit Components

Note:

Kit Components			
Kit Component	Part Number	Lot Number	Number Supplied
Hamster MAP 1 Beads	H101-B	K23373	1
Hamster MAP 1 Detection	H101-D	K23374	1
Hamster MAP 1 Standard	H101-S	K23375	2
Hamster MAP Control 1	H500-C1	K23355	1
Hamster MAP Control 2	H550-C2	K23296	1
Standard Curve Diluent	H101-SCD	K23376	1
Blocking Buffer	H101-BL	K23377	1
Streptavidin-PE	SAPE4-500	K23448	1
Sample Diluent	B116-15	K23379	1
Assay Buffer 10X	B100-30	K23380	1
Clear Bottom Black Assay Plate	NA	NA	1
Plate Cover with Foil Sealer	NA	NA	1

Storage and Stability

Store kit at 2°C - 8°C.

Expiration Date: 1 year from date of receipt; Do not use beyond the expiration date

Standard Concentrations:

Standard Level	IFN γ [pg/mL]	IL-10 [pg/mL]	IL-2 [pg/mL]	IL-4 [pg/mL]	IL-6 [pg/mL]	MCP-1 [pg/mL]	MIP-1 α [pg/mL]	TNF α [pg/mL]	VEGF [pg/mL]
S8	12375	17000	2500	12000	6500	3000	63000	1000	1600
S7	3540	4860	714	3430	1860	857	18000	286	457
S6	1010	1390	204	980	531	245	5140	82	131
S5	289	397	58	280	152	70	1470	23	37
S4	83	113	17	80	43	20	420	6.7	11
S3	24	32	4.8	23	12	5.7	120	1.9	3.1
S2	6.7	9.2	1.4	6.5	3.5	1.6	34	0.54	0.87
S1	1.9	2.6	0.39	1.9	1.0	0.47	9.8	0.16	0.25

Control Ranges:

Control	Range	IFN γ [pg/mL]	IL-10 [pg/mL]	IL-2 [pg/mL]	IL-4 [pg/mL]	IL-6 [pg/mL]	MCP-1 [pg/mL]	MIP-1 α [pg/mL]	TNF α [pg/mL]	VEGF [pg/mL]
1	Low	95	143	7.0	33	32	18	498	17	2.2
	High	286	428	21	100	96	54	1494	50	6.6
2	Low	1541	797	217	414	517	202	4710	310	58
	High	4623	2390	652	1243	1550	606	14129	929	175

LDD: Determined by 8 replicates of background +2SD.

LDD	IFN γ [pg/mL]	IL-10 [pg/mL]	IL-2 [pg/mL]	IL-4 [pg/mL]	IL-6 [pg/mL]	MCP-1 [pg/mL]	MIP-1 α [pg/mL]	TNF α [pg/mL]	VEGF [pg/mL]
Without Dilution	2.9	2.6	1.0	4.2	2.1	1.7	5.2	0.36	0.25
With Dilution	14	13	4.9	21	11	8.5	26	1.8	1.2

Reference MFI Values:

Standard and control MFI values generated on a Luminex 200 instrument using the standard (low) PMT setting. Data represents the average MFI of multiple runs at Ampersand Biosciences.

Representative data, may vary by instrument

MFI	IFN γ	IL-10	IL-2	IL-4	IL-6	MCP-1	MIP-1 α	TNF α	VEGF
S8	5032	8024	12130	11141	14027	12959	15606	10915	12735
S7	2122	4545	4543	4063	4291	4150	8486	3424	4604
S6	648	1694	1010	1020	1036	802	2878	983	1207
S5	195	510	213	249	258	176	725	295	316
S4	74	170	71	92	85	60	184	110	103
S3	35	77	34	45	38	30	54	54	41
S2	25	53	24	33	24	21	20	40	24
S1	24	47	24	31	21	20	10	38	20
Control 1	132	342	59	71	109	88	443	403	49
Control 2	1763	1802	2539	721	2124	1491	4909	7074	1004