



MOUSE CYTOKINE-CHEMOKINE PANEL 2

CERTIFICATE OF ANALYSIS

(Part ID: M105-K; Lot ID: K22660)

Use

For the detection of 11 mouse cytokines/chemokines (**CCL1, CCL6, Eotaxin, GCP-2, IP-10, ITAC, MCP-1, M-CSF, MDC, MIP-1 α , and MIP-1 β**) in serum, plasma, tissue homogenates, and bronchial lavage.

Kit Components

Note:

Kit Components			
Kit Component	Part Number	Lot Number	Number Supplied
Mouse Cytokine-Chemokine Panel 2 Beads	M105-B	K22661	1
Mouse Cytokine-Chemokine Panel 2 Detection	M105-D	K22662	1
Mouse Cytokine-Chemokine Panel 2 Standard	M105-S	K22663	1
Mouse Cytokine-Chemokine Panel 2 Control 1	M105-C1	K22664	1
Mouse Cytokine-Chemokine Panel 2 Control 2	M105-C2	K22665	1
Mouse Cytokine-Chemokine Panel 2 Standard Diluent	M105-SCD	K22666	1
Mouse Cytokine-Chemokine Panel 2 Blocker	M105-BL	K22875	1
Streptavidin-PE	SAPE4-250	K22741	1
Sample Diluent	B113-15		1
Assay Buffer 10X	B110-25		1
Clear Bottom Black Assay Plate	NA	NA	1
Plate Sealer	NA	NA	3

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	CCL1 [pg/mL]	CCL6 [ng/mL]	Eotaxin [pg/mL]	GCP-2 [ng/mL]	IP-10 [pg/mL]	ITAC [pg/mL]
S8	6000	11	2045	95	11000	30000
S7	1710	3.1	584	27	3140	8570
S6	489	0.90	167	7.7	897	2450
S5	140	0.26	48	2.2	256	700
S4	40	0.073	14	0.63	73	200
S3	11	0.021	3.9	0.18	21	57
S2	3.3	0.0060	1.1	0.051	6.0	16
S1	0.93	0.0017	0.32	0.015	1.7	4.7

Standard Level	MCP-1 [pg/mL]	M-CSF [ng/mL]	MDC [pg/mL]	MIP-1α [pg/mL]	MIP-1β [pg/mL]
S8	3680	6.0	1340	304500	2250
S7	1050	1.7	383	87000	643
S6	300	0.49	109	24900	184
S5	86	0.14	31	7110	53
S4	25	0.040	8.9	2030	15
S3	7.0	0.011	2.5	580	4.3
S2	2.0	0.0033	0.73	166	1.2
S1	0.57	0.00093	0.21	47	0.35

Control Ranges:

Control	Range	CCL1 [pg/mL]	CCL6 [ng/mL]	Eotaxin [pg/mL]	GCP-2 [ng/mL]	IP-10 [pg/mL]	ITAC [pg/mL]
1	Low	9.5	0.030	4.4	0.17	13	97
	High	28	0.090	13	0.50	40	291
2	Low	447	1.0	223	4.5	677	1594
	High	1341	3.1	670	13	2030	4781

Control	Range	MCP-1 [pg/mL]	M-CSF [ng/mL]	MDC [pg/mL]	MIP-1α [pg/mL]	MIP-1β [pg/mL]
1	Low	8.8	0.045	1.1	1433	11
	High	26	0.13	3.4	4299	32
2	Low	354	0.54	65	28929	357
	High	1062	1.6	194	86788	1072

Lowest Detectable Dose:

LDD	CCL1 [pg/mL]	CCL6 [ng/mL]	Eotaxin [pg/mL]	GCP-2 [ng/mL]	IP-10 [pg/mL]	ITAC [pg/mL]
With Dilution	6.0	0.055	3.6	0.29	17	74
Without Dilution	1.2	0.0011	0.71	0.058	3.3	15

LDD	MCP-1 [pg/mL]	M-CSF [ng/mL]	MDC [pg/mL]	MIP-1α [pg/mL]	MIP-1β [pg/mL]
With Dilution	9.0	0.0085	1.5	1833	2.0
Without Dilution	1.8	0.0017	0.29	367	0.40



Lowest Limit of Quantitation:

LLOQ	CCL1 [pg/mL]	CCL6 [ng/mL]	Eotaxin [pg/mL]	GCP-2 [ng/mL]	IP-10 [pg/mL]	ITAC [pg/mL]
With Dilution	21	0.087	15	0.45	54	139
Without Dilution	4.1	0.017	2.9	0.090	11	28
LLOQ	MCP-1 [pg/mL]	M-CSF [ng/mL]	MDC [pg/mL]	MIP-1 α [pg/mL]	MIP-1 β [pg/mL]	
With Dilution	18	0.046	4.1	2244	7.6	
Without Dilution	3.6	0.0093	0.81	449	1.5	

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	CCL1	CCL6	Eotaxin	GCP-2	IP-10	ITAC
S8	13641	12740	9874	23862	9635	16428
S7	7219	6693	4805	14447	5610	5999
S6	3064	2153	1747	4216	2088	1400
S5	853	426	587	722	698	309
S4	202	88	212	114	246	96
S3	65	38	110	38	116	48
S2	38	28	82	27	77	37
S1	33	28	74	27	69	33
Control 1	84	67	156	50	122	89
Control 2	4734	4890	3795	4885	3036	1893
MFI	MCP-1	M-CSF	MDC	MIP-1 α	MIP-1 β	
S8	15055	9297	10421	15552	5047	
S7	5888	4297	4303	4712	2255	
S6	1397	1606	1652	1408	960	
S5	272	548	547	372	352	
S4	80	202	180	99	130	
S3	40	98	70	42	62	
S2	30	69	38	29	43	
S1	32	60	31	28	39	
Control 1	55	336	62	129	165	
Control 2	3869	3042	1834	3273	2517	