



MOUSE CYTOKINE PANEL 3

CERTIFICATE OF ANALYSIS

(Part ID: M108-K; Lot ID: K22809)

Use

For the detection of 11 mouse cytokines/chemokines in serum, plasma, tissue homogenates, and bronchial lavage.

Analytes: GM-CSF, IFN β , IL-17, IL-18, IL-22, IL-23, IL-27, IL-28, IL-9, MIP-2 & TSLP.

Kit Components

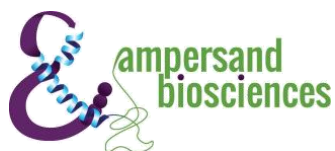
Note:

Kit Components			
Kit Component	Part Number	Lot Number	Number Supplied
Mouse Cytokine Panel 3 Beads	M108-B	K22900	1
Mouse Cytokine Panel 3 Detection	M108-D	K22937	1
Mouse Cytokine Panel 3 Standard	M108-S	K22934	1
Mouse Cytokine Panel 3 Control 1	M108-C1	K22889	1
Mouse Cytokine Panel 3 Control 2	M108-C2	K22890	1
Mouse Cytokine Panel 3 Standard Diluent	M108-SCD	K22913	1
Mouse Cytokine Panel 3 Blocker	M108-BL	K22886	1
Streptavidin-PE	SAPE4-250	K22924	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	GM-CSF [pg/mL]	IFN β [pg/mL]	IL-17 [pg/mL]	IL-18 [pg/mL]	IL-22 [pg/mL]	IL-23 [pg/mL]
S8	612	53275	6200	7225	13215	4885
S7	175	15200	1770	2060	3780	1400
S6	50	4340	506	589	1080	400
S5	14	1240	145	168	309	114
S4	4.1	354	41	48	88	33
S3	1.2	101	12	14	25	9.3
S2	0.33	29	3.4	3.9	7.2	2.7
S1	0.095	8.3	0.96	1.1	2.1	0.76

Standard Level	IL-27 [pg/mL]	IL-28 [pg/mL]	IL-9 [pg/mL]	MIP-2 [pg/mL]	TSLP [pg/mL]
S8	1305	9000	30950	1250	900
S7	373	2570	8840	357	257
S6	107	734	2530	102	73
S5	31	210	723	29	21
S4	8.7	60	207	8.3	6.0
S3	2.5	17	59	2.4	1.7
S2	0.71	4.9	17	0.68	0.49
S1	0.20	1.4	4.8	0.19	0.14

Control Ranges:

Control	Range	GM-CSF [pg/mL]	IFN β [pg/mL]	IL-17 [pg/mL]	IL-18 [pg/mL]	IL-22 [pg/mL]	IL-23 [pg/mL]
1	Low	1.2	176	68	25	73	23
	High	3.6	527	204	75	220	70
2	Low	17	1217	1110	264	614	244
	High	50	3650	3331	791	1841	731

Control	Range	IL-27 [pg/mL]	IL-28 [pg/mL]	IL-9 [pg/mL]	MIP-2 [pg/mL]	TSLP [pg/mL]
1	Low	12	27	227	23	6.9
	High	36	82	680	69	21
2	Low	170	255	1146	268	100
	High	509	764	3439	803	299

Lowest Detectable Dose:

LDD	GM-CSF [pg/mL]	IFN β [pg/mL]	IL-17 [pg/mL]	IL-18 [pg/mL]	IL-22 [pg/mL]	IL-23 [pg/mL]
Without Dilution	0.11	23	1.0	6.3	4.6	1.5
With Dilution	0.55	115	4.8	32	23	7.7

LDD	IL-27 [pg/mL]	IL-28 [pg/mL]	IL-9 [pg/mL]	MIP-2 [pg/mL]	TSLP [pg/mL]
Without Dilution	0.20	3.2	43	0.46	0.17
With Dilution	1.0	16	216	2.3	0.85



Lowest Limit of Quantitation:

LLOQ	GM-CSF [pg/mL]	IFN β [pg/mL]	IL-17 [pg/mL]	IL-18 [pg/mL]	IL-22 [pg/mL]	IL-23 [pg/mL]
Without Dilution	0.41	83	5.2	7.1	9.2	8.9
With Dilution	2.1	415	26	36	46	45
LLOQ	IL-27 [pg/mL]	IL-28 [pg/mL]	IL-9 [pg/mL]	MIP-2 [pg/mL]	TSLP [pg/mL]	
Without Dilution	1.5	18	87	0.82	0.35	
With Dilution	7.5	90	435	4.1	1.8	

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	GM-CSF	IFN β	IL-17	IL-18	IL-22	IL-23
S8	8823	11575	7163	13385	10269	14220
S7	4725	5509	3129	7436	3926	5531
S6	1982	2645	1175	2377	1020	1543
S5	887	546	1176	837	496	773
S4	450	281	869	469	317	440
S3	353	246	820	419	288	446
S2	39	19	29	47	23	45
S1	26	20	27	42	22	45
Control 1	146	62	412	147	135	174
Control 2	1588	1216	4329	2251	1358	2144
MFI	IL-27	IL-28	IL-9	MIP-2	TSLP	
S8	6783	8124	8935	6119	12849	
S7	2652	4621	5939	2534	5286	
S6	1039	1591	1959	913	1740	
S5	841	541	641	1021	1329	
S4	596	262	371	747	899	
S3	552	255	373	748	891	
S2	37	24	15	36	29	
S1	32	24	14	30	24	
Control 1	298	75	152	479	396	
Control 2	2848	1235	2015	4070	4783	