

GUINEA PIG CYTOKINE PANEL 1

CERTIFICATE OF ANALYSIS

(Part ID: G123-K; Lot ID: K23187)

Use

For the detection of 5 Guinea Pig cytokines/chemokines (**IL-1 β** , **IL-6**, **IL-8**, **MIP-1 β** , & **TNF α**) in serum, EDTA-plasma, tissue homogenates, and bronchial lavage.

Base Kit Components

Kit Components			
Kit Component	Part Number	Lot Number	Number Supplied
Guinea Pig Cytokine Panel 1 Detection	G123-D	K23189	1
Guinea Pig Cytokine Panel 1 Standard	G123-S	K23261	1
Guinea Pig Cytokine Panel 1 Control 1	G123-C1	K23262	1
Guinea Pig Cytokine Panel 1 Control 2	G123-C2	K23263	1
Guinea Pig Cytokine 1 Standard Curve Diluent	G123-SCD	K23238	1
Guinea Pig Cytokine 1 Blocker	G123-BL	K23194	1
Streptavidin-PE	SAPE4-250	K23302	1
Sample Diluent	B116-15	K23199	1
Assay Buffer 10X	B100-30	K23197	1
Clear Bottom Black Assay Plate	NA	NA	1
Plate Cover with Foil Sealer	NA	NA	1

Bead Components

Bead Component	Part Number	Lot Number	Included
Guinea Pig Cytokine Panel 1 Beads	G123-B	K23188	<input type="checkbox"/>
Guinea Pig IL-1 β Bead, 20X	G123-IL-1b	K23297	<input type="checkbox"/>
Guinea Pig IL-6 Bead, 20X	G123-IL-6	K23298	<input type="checkbox"/>
Guinea Pig IL-8 Bead, 20X	G123-IL-8	K23299	<input type="checkbox"/>
Guinea Pig MIP-1 β Bead, 20X	G123-MIP-1b	K23300	<input type="checkbox"/>
Porcine TNF α Bead, 20X	G123-TNF α	K23301	<input type="checkbox"/>

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	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
S8	5000	5000	7500	8000	4000
S7	1429	1429	2143	2286	1143
S6	408	408	612	653	327
S5	117	117	175	187	93
S4	33	33	50	53	27
S3	10	10	14	15	7.6
S2	2.7	2.7	4.1	4.4	2.2
S1	0.78	0.78	1.2	1.2	0.62

Control Ranges:

Control	Range	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
1	Low	42	43	137	92	30
	High	126	130	411	277	89
2	Low	374	458	661	1056	210
	High	1122	1374	1983	3168	629

LDD: Determined by 10 replicates of background +2SD.

LDD	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
Without Dilution	3.3	0.78	5.5	3.6	1.1
With Dilution	16	3.9	27	18	5.7

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	IL-1 β	IL-6	IL-8	MIP-1 β	TNF α
S8	24271	15852	18468	13487	10198
S7	19046	7483	16808	9291	4295
S6	7468	2774	3593	3887	1418
S5	1119	875	425	944	436
S4	171	282	127	220	149
S3	57	101	65	75	63
S2	39	44	46	42	36
S1	36	28	42	37	30
Control 1	594	639	802	891	273
Control 2	12912	5203	13629	8673	1740