



PORCINE CYTOKINE PANEL 1

CERTIFICATE OF ANALYSIS

(Part ID: P117-K; Lot ID: K23077)

Use

For the detection of 9 Porcine cytokines/chemokines (**IFN α** , **IFN γ** , **IL-1 β** , **IL-6**, **IL-8**, **IP-10**, **MDC**, **MIP-1 β** , & **TNF α**) in serum, EDTA-plasma, tissue homogenates, and bronchial lavage.

Kit Components

Kit Components			
Kit Component	Part Number	Lot Number	Number Supplied
Porcine Cytokine Panel 1 Beads	P117-B	K23078	1
Porcine Cytokine Panel 1 Detection	P117-D	K23079	1
Porcine Cytokine Panel 1 Standard	P117-S	K23080	1
Porcine Cytokine Panel 1 Control 1	P117-C1	K23081	1
Porcine Cytokine Panel 1 Control 2	P117-C2	K23082	1
Porcine Cytokine 1 Standard Curve Diluent	P117-SCD	K23083	1
Porcine Cytokine 1 Blocker	P117-BL	K23084	1
Streptavidin-PE	SAPE4-250	K23124	1
Sample Diluent	B113-15	K23085	1
Assay Buffer 10X	B100-30	K23086	1
Clear Bottom Black Assay Plate	NA	NA	1
Plate Cover with Foil Sealer	NA	NA	1
Plate 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



6459 State Route 30 Lake Clear, NY 12945 Phone: 518.891.0204 info@ampersandbio.com

Standard Concentrations:

Standard Level	IFN α [pg/mL]	IFN γ [pg/mL]	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	IP-10 [pg/mL]	MDC [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
S8	10000	2500	1000	1000	3000	8000	750	1000	1500
S7	2857	714	286	286	857	2286	214	286	429
S6	816	204	82	82	245	653	61	82	122
S5	233	58	23	23	70	187	17	23	35
S4	67	17	6.7	6.7	20	53	5.0	6.7	10
S3	19	4.8	1.9	1.9	5.7	15	1.4	1.9	2.9
S2	5.4	1.4	0.54	0.54	1.6	4.4	0.41	0.54	0.82
S1	1.6	0.39	0.16	0.16	0.47	1.2	0.12	0.16	0.23

Control Ranges:

Control	Range	IFN α [pg/mL]	IFN γ [pg/mL]	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	IP-10 [pg/mL]	MDC [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
1	Low	80	15	19	20	13	60	1.9	19	30
	High	241	44	57	60	38	180	5.6	57	91
2	Low	439	105	186	76	59	546	15	88	130
	High	1316	315	558	229	178	1638	45	264	389

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

LDD	IFN α [pg/mL]	IFN γ [pg/mL]	IL-1 β [pg/mL]	IL-6 [pg/mL]	IL-8 [pg/mL]	IP-10 [pg/mL]	MDC [pg/mL]	MIP-1 β [pg/mL]	TNF α [pg/mL]
Without Dilution	2.0	0.39	1.0	0.32	1.8	3.1	0.42	3.5	2.1
With Dilution	5.9	1.2	2.9	1.0	5.5	9.2	1.3	10	6.2

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 α	IFN γ	IL-1 β	IL-6	IL-8	IP-10	MDC	MIP-1 β	TNF α
S8	8638	19846	11342	14455	12183	10747	14165	14439	19092
S7	4789	9332	2647	6230	10833	8960	6530	5726	5587
S6	2155	3240	681	2012	6346	3671	2161	1043	888
S5	791	1019	204	608	1885	1040	682	142	173
S4	250	296	72	189	297	302	230	39	59
S3	87	94	36	70	56	118	95	26	33
S2	37	41	28	37	28	63	62	22	27
S1	24	25	24	28	25	55	49	21	24
Control 1	578	545	319	1024	433	716	197	299	332
Control 2	2227	3444	3687	3591	3610	5845	1177	3219	2668