

**Supplemental:****Full List of Analyzed Molecules**

Analyzed molecules included sCD40L, EGF, Eotaxin/CCL11, FGF-2, Flt-3 ligand, Fractalkine, G-CSF, GM-CSF, GRO, IFN- $\alpha$ 2, IFN- $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-1RA, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12 (p40), IL-12 (p70), IL-13, IL-15, IL-17A, IP-10, MCP-1/CCL2, MCP-3/CCL7, MDC /CCL22, MIP-1 $\alpha$ /CCL3, MIP-1 $\beta$ /CCL4, PDGF-AA, PDGF-AB/BB, TGF- $\alpha$ , TNF- $\alpha$ , TNF- $\beta$ , and VEGF.

**Cytokine Measurement**

Different methods of evaluation of soluble analytes, including xMAP technology and ELISA, have different rates of inhibition of binding, especially in plasma, due to the matrix effect. For these reasons, results of different measurement techniques cannot be compared directly and need their own controls; therefore, we included in the study four age- and gender-matched healthy controls with no COVID-19 in the anamnesis.

We centrifuged EDTA blood for 10 min at 1000 *g* RT within 20 min after blood collection. Obtained plasma was stored at -80°C prior to analysis. For measurement of cytokines, we diluted plasma 2x to reduce the matrix effect. We measured cytokine concentration with a 40-plex MILLIPLEX™ MAP KIT (Human Cytokine/Chemokine Magnetic Bead Panel HCYTMAG-60K-PX41; EMD Millipore Corporation Merck KGaA) on a Luminex 200 platform, which enabled us to detect 40 analytes simultaneously (see the full list of analyzed molecules in Supplemental).

To set up standard curves, we prepared a series of eight standard dilutions with dilution factors (df) 5 and df 4. We performed data collection and analysis using the software BioPlex Manager 5.0. Limits of quantification are listed in [Table 1](#).

**Table 1:** Limits of quantification of cytokine and chemokine measurement.

Analyte	Lower limit of quantification (LLOQ), pg/mL	Upper limit of quantification (ULOQ), pg/mL
sCD40L	27,27	10000,17
EGF	6,97	11635,67
Eotaxin/CCL11	5,99	10128,53
FGF-2	29,98	10028,22
Flt-3 ligand	7,78	10026,97
Fractalkine	20,31	10000
G-CSF	27,63	10001,01
GM-CSF	1,61	10009,13
GRO	7,39	10093,83
IFN- $\alpha$ 2	28,04	9999,94
IFN- $\gamma$	1,87	10017,17
IL-1 $\alpha$	1,57	9999,44
IL-1 $\beta$	0,45	10080,61
IL-1RA	1,17	10000,16
IL-2	0,37	10123,81
IL-3	0,4	8808,57
IL-4	27,05	10136,68
IL-5	0,41	9831,13
IL-6	7,76	1998,63
IL-7	8,11	1972,21
IL-8	0,39	10201,73
IL-9	0,33	10202,04
IL-10	1,9	10077,45
IL-12 (p40)	25,11	10002,81
IL-12 (p70)	1,63	10077,15
IL-13	0,33	10022,09
IL-15	0,41	10072,76
IL-17A	1,65	10016,87
IP-10	1,9	10077,45
MCP-1/CCL2	1,9	9013,45
MCP-3/CCL7	1,67	10304,23
MDC/CCL22	5,23	10000,37
MIP-1 $\alpha$ /CCL3	5,9	389,08
MIP-1 $\beta$ /CCL4	0,38	2575,69
PDGF-AA	1,98	10695,38
PDGF-AB/BB	28,58	10000,14
TGF- $\alpha$	0,38	392,87
TNF- $\alpha$	0,32	10005,2
TNF- $\beta$	1,41	9999,86
VEGF	5,84	10540

**Table 2:** Cytokine concentrations in plasma samples.

Analyte	Concentration, pg/mL	
	Case patient	Healthy volunteers
sCD40L	685,18	1404,35 ± 1014,03
EGF	59,43	73,98 ± 30,75
Eotaxin/CCL11	46,34	87,87 ± 20,48
FGF-2	219,73	106,86 ± 38,12
Flt-3 ligand	<LLOQ	<LLOQ
Fractalkine	258,92	160,56 ± 102,98
G-CSF	385,5	57,09 ± 34,04
GM-CSF	24,42	10,63 ± 5,09
GRO	645,29	1743,51 ± 513,82
IFN-α2	108,71	28,04 ± 0,00
IFN-γ	51,69	15,70 ± 9,14
IL-1α	<LLOQ	<LLOQ
IL-1β	7,7	2,56 ± 1,23
IL-1RA	73,39	30,80 ± 7,20
IL-2	6,65	1,22 ± 0,79
IL-3	1,26	0,40 ± 0,00
IL-4	<LLOQ	<LLOQ
IL-5	3,95	2,52 ± 1,63
IL-6	27,02	7,76 ± 0,00
IL-7	<LLOQ	<LLOQ
IL-8	15,92	7,41 ± 7,28
IL-9	5,89	0,94 ± 0,32
IL-10	9,8	3,21 ± 1,51
IL-12 (p40)	<LLOQ	<LLOQ
IL-12 (p70)	21,89	6,47 ± 4,49
IL-13	4,79	1,37 ± 2,07
IL-15	9,77	5,51 ± 1,79
IL-17A	23,87	4,79 ± 2,49
IP-10	462,75	396,02 ± 76,75
MCP-1/CCL2	263,93	200,03 ± 59,80
MCP-3/CCL7	54,55	18,76 ± 14,73
MDC/CCL22	770,19	780,38 ± 305,51
MIP-1α/CCL3	24,19	5,90 ± 0,00
MIP-1β/CCL4	39,73	29,43 ± 9,33
PDGF-AA	462,48	740,00 ± 303,70
PDGF-AB/BB	5516,52	4370,23 ± 1526,78
TGF-α	5,08	3,41 ± 2,43
TNF-α	34,78	17,09 ± 2,73
TNF-β	<LLOQ	<LLOQ
VEGF	119,3	55,35 ± 38,35

<LLOQ, concentration lower than lower limit of quantification. For values lower than LLOQ, we used LLOQ/2.