

FROM 48 to 1, and ANYTHING in BETWEEN

Our new human panel: larger and customizable

The MILLIPLEX® Human Cytokine/Chemokine/Growth Factor Panel A combines tests for 48 individual immune factors that previously have not been together in a single panel, while also allowing you choose any combination of analytes, or select a 48-plex or a 38-plex premixed kit.

MILLIPLEX® Human Cytokine/Chemokine/Growth Factor Panel A

(Cat. Nos. HCYTA-60K*; 38-plex premixed bead kits: HCYTA-60K-PX38, HCYTA-60K-PXBK38; 48-plex premixed bead kits: HCYTA-60K-PX48, HCYTA-60K-PXBK48)

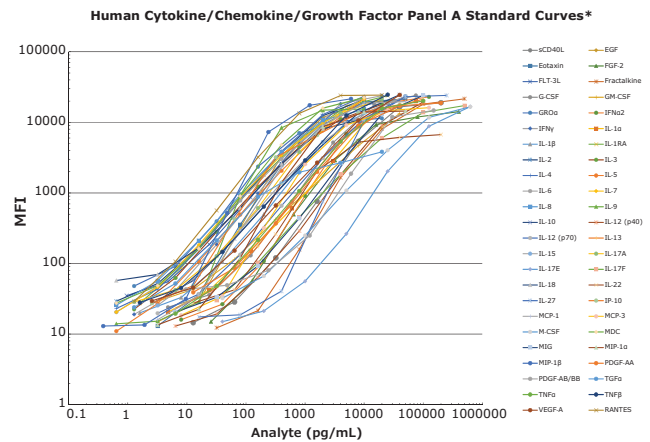
*Also available for customizing your premix!

Analytes: See table below

Samples: Serum, plasma, and cell/tissue culture supernatant

Standard Curves: Broad and fixed ranges for lot-to-lot consistency, optimized for each analyte

Standard Curves: 48 Assays



*Standard curves for all analytes were performed in MXHSM-A serum matrix except RANTES, which was in L-AB assay buffer. The kit was run using the HCYTA-60K overnight assay protocol.

Built with the trusted MILLIPLEX® assay specifications to guarantee consistent performance over time

Analyte	Standard Curve Range (pg/mL)	Sensitivity: minDC (pg/mL)*
sCD40L	13 – 200,000	5.65
EGF°	3 – 50,000	3.20
Eotaxin°	3 – 50,000	3.08
FGF-2	26 – 400,000	22.30
FLT-3L	0.96 – 15,000	0.84
Fractalkine	32 – 500,000	29.75
G-CSF°	4.8 – 75,000	3.76
GM-CSF°	2.6 – 40,000	1.55
GRO α	1.3 – 20,000	1.05
IFN α 2°	8 – 125,000	6.56
IFN γ °	1.3 – 20,000	0.86
IL-1 α °	4.8 – 75,000	2.27
IL-1 β °	1.6 – 25,000	0.52
IL-1RA°	1.6 – 25,000	1.29
IL-2°	0.64 – 10,000	0.28
IL-3°	1.3 – 20,000	0.28
IL-4°	0.64 – 10,000	0.20
IL-5°	0.64 – 10,000	0.17
IL-6°	0.64 – 10,000	0.14
IL-7°	0.64 – 10,000	0.14
IL-8°	0.64 – 10,000	0.52
IL-9	0.64 – 10,000	3.05
IL-10°	2.6 – 40,000	0.91
IL-12 (p40)°	6.4 – 100,000	3.24

Analyte	Standard Curve Range (pg/mL)	Sensitivity: minDC (pg/mL)*
IL-12 (p70)°	3 – 50,000	0.88
IL-13°	6.4 – 100,000	2.58
IL-15°	3 – 50,000	0.74
IL-17A°	1.3 – 20,000	0.71
IL-17E/IL-25°	40 – 625,000	19.77
IL-17F°	32 – 500,000	28.63
IL-18°	0.64 – 10,000	0.53
IL-22°	13 – 200,000	12.68
IL-27	16 – 250,000	50.78
IP-10/CXCL10°	2.6 – 40,000	2.13
MCP-1°	3 – 50,000	3.05
MCP-3	8 – 125,000	8.61
M-CSF°	40 – 625,000	31.95
MDC	0.64 – 10,000	0.42
MIG°	6.4 – 100,000	3.98
MIP-1 α °	3 – 50,000	3.82
MIP-1 β °	0.38 – 6,000	0.37
PDGF-AA°	13 – 200,000	10.33
PDGF-AB/BB°	9.6 – 150,000	16.39
RANTES°	1.3 – 20,000	1.58
TGF α	1.3 – 20,000	0.97
TNF α °	6.4 – 100,000	5.39
TNF β °	1.6 – 25,000	0.80
VEGF-A°	2.6 – 40,000	0.98

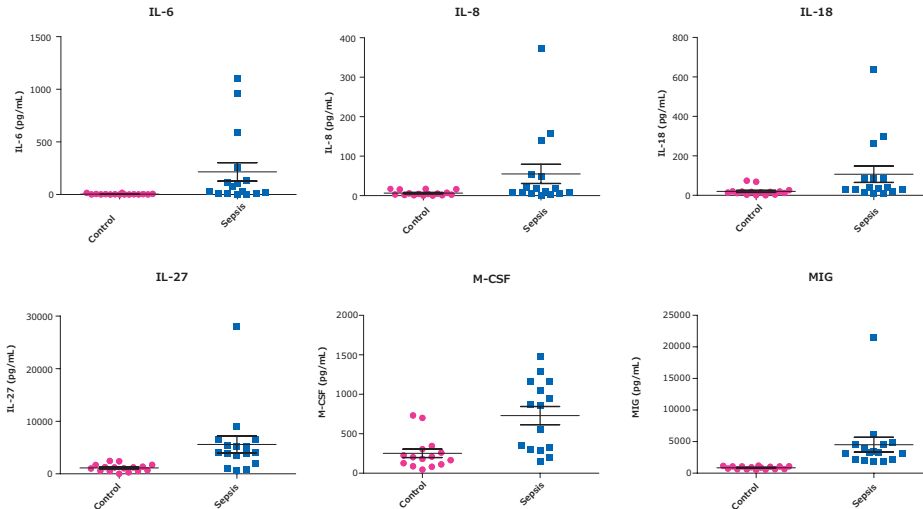
*Assay sensitivities (minDC, or minimum detectable concentrations) calculated using the overnight assay protocol with n = 8 assays, with MILLIPLEX® Analyst 5.1 software, view our protocol for more information.

°Contained in the 38-plex premixed kit.

SO MANY ANALYTES!

Same ready-to-use kit format with a straightforward protocol

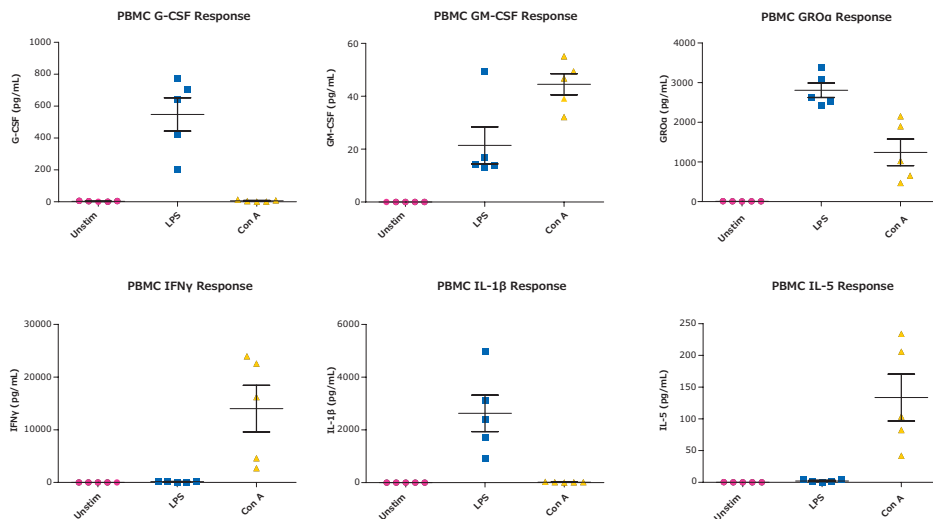
Testing Disease Samples: Sepsis vs. Normal



Healthy control serum/plasma samples (obtained from BioIVT) and sepsis patient serum/plasma samples (obtained from BioIVT, Discovery, and BioChemed) were tested neat (25 μ L/well) in the HCYTA-60K panel.

Healthy control serum/plasma samples, N=20. Sepsis serum/plasma samples, N=16.

Testing Stimulated PBMCs



Human PBMC samples (obtained from BioIVT) in RPMI containing 10% FBS and 1% Penicillin/ Streptomycin at 10^6 cells/mL were incubated with either 1 μ g/mL LPS or Con A (Sigma-Aldrich) for 48 hours at 37 $^{\circ}$ C, after which cell-free supernatants were collected and tested with the HCYTA-60K panel.

MILLIPLEX[®] kits are manufactured in facilities which are ISO 9001-2015 compliant and are for research use only (RUO), not for use in clinical or for medical diagnostic purposes.

To view our large portfolio of MILLIPLEX[®] assays for Luminex[®] technology, visit

SigmaAldrich.com/milliplex

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