

Test/Analyte	Synonyms/Comments	Reactive Species	Matrices	Technology/Method	Platform/ Instrument	Regulatory Rigor	Category	Status
AAV NAb (Neutralizing Antibody) Assay		Human	Serum	Flow Cytometry	Quanteon	GCLP	NAb Assays	Experienced
Acetylated Tubulin and Acetylated Histone		Human	Cryopreserved whole blood	Flow Cytometry	Canto	GCLP	PD Assays	Experienced
ADV qPCR	Adenovirus	Human	Eye swab/VTM, Nasal swab/VTM, Skin swab/VTM	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
Anti-CAR Assay	Chimeric antigen receptor	Human	Serum	Flow Cytometry	Canto	GCLP	ADA Assays	Experienced
Beta globin qPCR	β-globin, haemoglobin beta, hemoglobin beta	Human	Urine, Saliva	qPCR	ABI Thermocycler	GCLP	Genomics	Experienced
Beta-Amyloid	A-Beta or Aβ 1-40 and 1-42	Human	Plasma	Electrochemiluminescence (ECL)	MSD	GCLP	Biomarkers	Experienced
BioFire Pneumonia Panel (PN)		Human	NP swab/VTM	multiplex PCR Filmarray	BioFire Torch	GCLP	Infectious Disease Multiplex	IVD
BioFire Respiratory Panel (RP2.1)		Human	NP swab/VTM	multiplex PCR Filmarray	BioFire Torch	GCLP	Infectious Disease Multiplex	IVD
C1q		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
C3		Human	Serum, AH (aqueous humor), CSF	Electrochemiluminescence (ECL)	MSD R-PLEX	GCLP	Biomarkers	Experienced
C3a		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
C3a		Human	Plasma, AH (aqueous humor), CSF	EIA/LBA	MSD R-PLEX	GCLP	Biomarkers	Experienced
C5a		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
CEACAM6	Carcinoembryonic antigen 'CEA' - related cell adhesion molecule 6	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
Cetuximab (Erbix®) PK	Erbix	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	PK Assays	Experienced
Citrullinated Histone		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
CMV Genotyping by Sanger Sequencing	Cytomegalovirus	Human	Plasma	Sanger Sequencing	ABI 3730XL Sequencer	GCLP	Genomics; Sequencing	GCLP Validation
CMV qPCR	Cytomegalovirus	Human	Urine, Saliva,	qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
CMV Sanger Sequencing (whole gene)	Cytomegalovirus	Human	Plasma	Sanger Sequencing	ABI 3730XL Sequencer	GCLP	Genomics; Sequencing	GCLP Validation
Complement Factor Ba		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
CRP		Human	Serum	EIA/LBA	MSD U-PLEX	GCLP	Biomarkers	Experienced
CXCL9	MIG	Human	Serum	EIA/LBA	MSD	GCLP	Biomarkers	Experienced
D-Dimer		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
EBV qPCR	Epstein-Barr Virus	Human	Saliva	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
EOTAXIN		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Epstein-Barr virus (EBV) qPCR		Human	Cultured Cells	qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
GDNF	Glial Cell Line-Derived Neurotrophic Factor	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
GenMark Respiratory Panel (RP & RP2)		Human	NP swab/VTM	multiplex PCR Microarray	Roche ePlex	GCLP	Infectious Disease Multiplex	IVD
HAV RT-qPCR	Hepatitis A	Human	Plasma	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
HDV IgM	Hepatitis D Immunoglobulin M	Human	Serum	EIA/LBA	ELISA (automated)	GCLP	Viral Serology	GCLP Validation

Biomarker Menu

Off-the-Shelf Offerings

Test/Analyte	Synonyms/Comments	Reactive Species	Matrices	Technology/Method	Platform/ Instrument	Regulatory Rigor	Category	Status
hERV-3 RT-qPCR	Human endogenous retrovirus 3	Human	Swab/VTM	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
HHV-6 qPCR	Human Herpesvirus 6	Human	PBMC	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
HHV-7 qPCR	Human Herpesvirus 7	Human	PBMC	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
HHV-8 qPCR	Human Herpesvirus 8	Human	Serum, PBMC	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
HIV RT-qPCR	Human Immunodeficiency Virus	Human	Plasma, Saliva, Urine	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
HLA-E		Human	Plasma	EIA/LBA	MSD	GCLP	Biomarkers	Experienced
HSV based oncolytic virus qPCR (Vector Shedding)	Herpes Simplex Virus	Human	Whole Blood, Serum, Plasma, PBMCs, Saliva, Urine, Stool, Semen, Swabs in VTM, Swab in Amies media	qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
HSV based oncolytic virus TCID50 (Infectivity Assay)	Herpes Simplex Virus	Human	Whole Blood, Serum, Plasma, Urine, Swabs in VTM	Live cell culture	Revvity Celligo	GCLP	Live Cell	Experienced
HSV-1 & HSV-2 qPCR	Herpes Simplex Virus	Human	Swab/VTM	qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
ICAM-1		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
IFN-γ		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IFN-γ		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
IFN-γ		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IGF-1		Bovine	Serum	EIA/LBA	ELISA (manual)	GLP	Biomarkers	Experienced
IGF-1		Porcine	Serum	EIA/LBA	ELISA (manual)	GLP	Biomarkers	Experienced
IgG1-4		Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
IL-10		Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
IL-10		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-12p70		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-13		Human	Sputum	Electrochemiluminescence (ECL)	MSD S-PLEX	GCLP	Biomarkers	Experienced
IL-13		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-18		Human	Sputum	Electrochemiluminescence (ECL)	MSD U-PLEX	GCLP	Biomarkers	Experienced
IL-18		Human	Serum	Electrochemiluminescence (ECL)	MSD U-PLEX	GCLP	Biomarkers	Experienced
IL-1RA		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-1β		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-2		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
IL-2		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-3		Human	Plasma	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-4		Human	Sputum	Electrochemiluminescence (ECL)	MSD S-PLEX	GCLP	Biomarkers	Experienced
IL-4		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced

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IL-5		Human	Sputum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-6		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-8		Human	Culture Media	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
IL-8		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
INF-γ		Canine	Serum	EIA/LBA	ELISA (manual)	GLP	Biomarkers	Experienced
INF-γ		Human	Serum	Electrochemiluminescence (ECL)	MSD	GCLP	Biomarkers	Experienced
Interferon-gamma (IFN-γ) T cell response by ELISpot		Human	PBMC	ELISpot	CTL S6 Ultra	GCLP	Live Cell	FFP Validation
IP-10		Human	Serum	Electrochemiluminescence (ECL)	MSD U-PLEX	GCLP	Biomarkers	Experienced
Lipocalin 2	LCN-2, siderocalin, NGAL, uterocalin	Human	Fecal	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
LRG		Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
Lyra Quidel RSV/hMPV		Human	NP swab/VTM, Nasal swab/VTM	multiplex RT-PCR	ABI Thermocycler	GCLP	Infectious Disease Multiplex	IVD
MCP-1		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
MIG (CXCL9)		Human	Plasma	Electrochemiluminescence (ECL)	MSD U-PLEX	GCLP	Biomarkers	Experienced
MIP-1α		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Nanostring		Human	FFPE, Saliva, Buccal Swab, PAXgene RNA Whole Blood, Tissue Biopsy	RNA gene expression	nCounter	GCLP, RUO	Gene Expression Profiling	FFP Validation
Panel: BDNF, Ferritin, IL-18, RAGE, CC16 (Uteroglobulin), CCL5/RANTES		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
Panel: EGF, Eotaxin, IFNα2, IFN-γ, IL-12p40, IL-12p70, IL-13, IL-15, IL-17A, IL-1RA, IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-7, IL-8, MCP-1, TNFβ, VEGF, G-CSF, GM-CSF, IL-10, IL-6, IP-10, MIP-1α, MIP-1β, TNFα		Human	cell culture media	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
Panel: EOTAXIN, TARC, MIP-1α, MCP-1		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Panel: G-CSF, IL-6		Rhesus	Plasma	Electrochemiluminescence (ECL)	MSD	GLP	Biomarkers	Experienced
Panel: G-CSF, IL-6, IL-8, IL-10		Rhesus	Plasma	Electrochemiluminescence (ECL)	MSD	GLP	Biomarkers	Experienced
Panel: GM-CSF, IL-7, IL-15, IL-17A		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Panel: IFN-γ, IL-1β, IL-2, IL-4, IL-6, IL-8, IL-10, IL-12p70, IL-13, TNF-α		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Panel: IFN-γ, TNF-alpha, IL-1b, IL-6, IL-8, IL-10		Human	Plasma	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Panel: IL-1αa, IL-1βb, IL-2, IL-6, IL-10, TNF-α		Human	Synovial Fluid	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
Panel: IL-2, IL-8, TNF-a, IFN-γ		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
Panel: MCP-1, IP-10, IFN-gamma, IL-1 beta, IL-6, IL-12p70, IL-18		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
Panel: MIP-a, MIP-b		Human	Plasma	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced

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PanViral WGS Panel	RSV-A, RSV-B, Influenza A H1N1, Influenza A H3N2, Influenza B, SARS-CoV-2, hMPV, hPIV	Human	Swab/VTM	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP, RUO	Genomics: Sequencing	Coming Soon
PBMC Isolation		Human	NaHep, EDTA, CPT	Ficoll (overlay & frit barrier), CPT	manual Ficoll method	GCLP	Live Cell	GCLP Validation
Pembrolizumab (Keytruda®) ADA	Keytruda	Human	Serum	EIA/LBA	MSD	GCLP	ADA Assays	Coming soon
Pembrolizumab (Keytruda®) PK	Keytruda	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	PK Assays	Coming soon
RCL RT-qPCR	Replication-Competent Lentivirus	Human	PBMC, PAXgene WB	RT-qPCR	ABI Thermocycler	GCLP	Safety Testing	GCLP Validation
RCL RT-qPCR	Replication Competent Lentivirus	Human	Bone marrow	RT-qPCR	ABI Thermocycler	GCLP	Safety Testing	Experienced
RCR RT-qPCR	Replication-Competent Retrovirus	Human	PBMC	RT-qPCR	ABI Thermocycler	GCLP	Safety Testing	GCLP Validation
RNASeq - Whole Transcriptome		Human	FFPE, Saliva, Buccal Swab, PAXgene RNA Whole Blood, Tissue Biopsy	RNA gene expression	Illumina (NextSeq, NovaSeq)	GCLP, RUO	Genomics	FFP Qualification
RSV A RT-qPCR	Respiratory Syncytial Virus A, RSV-A	Human	Nasal Swab in VTM	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
RSV B RT-qPCR	Respiratory Syncytial Virus B, RSV-B	Human	Nasal Swab in VTM	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
RSV NGS (F gene)	Respiratory Syncytial Virus	Human	Nasal swab/VTM	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
RSV Sanger Sequencing (F, G, NS1, NS2 genes)	Respiratory Syncytial Virus	Human	Nasal swab/VTM	Sanger Sequencing	ABI 3730XL Sequencer	GCLP	Genomics; Sequencing	GCLP Validation
SARS-CoV-2 RT-qPCR (qualitative)		Human	NP swab/VTM, Nasal swab/VTM, saliva, serum	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
SARS-CoV-2 RT-qPCR (quantitative)		Human	NP swab/VTM, Nasal swab/VTM, saliva, serum	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
SARS-CoV-2 Spike NGS		Human	NP swab/VTM, Nasal swab/VTM, saliva	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
SARS-CoV-2 WGS		Human	NP swab/VTM, Nasal swab/VTM, saliva	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
sIL2R-alpha		Human	Serum	Electrochemiluminescence (ECL)	MSD	GCLP	Biomarkers	Experienced
sRage	soluble Receptor for Advanced Glycation end-products	Human	Serum, Sputum, BALF (bronchoalveolar lavage fluid), ELF (epithelial lining fluid)	Electrochemiluminescence (ECL)	MSD R-PLEX	GCLP	Biomarkers	Experienced
RCR RT-qPCR	Replication-Competent Retrovirus	Human	PBMC	RT-qPCR	ABI Thermocycler	GCLP	Safety Testing	GCLP Validation
RNASeq - Whole Transcriptome		Human	FFPE, Saliva, Buccal Swab, PAXgene RNA Whole Blood, Tissue Biopsy	RNA gene expression	Illumina (NextSeq, NovaSeq)	GCLP, RUO	Genomics	FFP Qualification
RSV A RT-qPCR	Respiratory Syncytial Virus A, RSV-A	Human	Nasal Swab in VTM	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
RSV B RT-qPCR	Respiratory Syncytial Virus B, RSV-B	Human	Nasal Swab in VTM	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	Experienced
RSV NGS (F gene)	Respiratory Syncytial Virus	Human	Nasal swab/VTM	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
RSV Sanger Sequencing (F, G, NS1, NS2 genes)	Respiratory Syncytial Virus	Human	Nasal swab/VTM	Sanger Sequencing	ABI 3730XL Sequencer	GCLP	Genomics; Sequencing	GCLP Validation

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SARS-CoV-2 RT-qPCR (qualitative)		Human	NP swab/VTM, Nasal swab/VTM, saliva, serum	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
SARS-CoV-2 RT-qPCR (quantitative)		Human	NP swab/VTM, Nasal swab/VTM, saliva, serum	RT-qPCR	ABI Thermocycler	GCLP	Infectious Disease	GCLP Validation
SARS-CoV-2 Spike NGS		Human	NP swab/VTM, Nasal swab/VTM, saliva	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
SARS-CoV-2 WGS		Human	NP swab/VTM, Nasal swab/VTM, saliva	NGS	Illumina (MiSeq, NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
sIL2R-alpha		Human	Serum	Electrochemiluminescence (ECL)	MSD	GCLP	Biomarkers	Experienced
sRage	soluble Receptor for Advanced Glycation end-products	Human	Serum, Sputum, BALF (bronchoalveolar lavage fluid), ELF (epithelial lining fluid)	Electrochemiluminescence (ECL)	MSD R-PLEX	GCLP	Biomarkers	Experienced
sTNFR1	soluble Tumor Necrosis Factor Receptor 1	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
sVCAM-1	soluble Vascular Cell Adhesion molecule-1	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
TARC		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Tcell Immunophenotyping Panel	Live/Dead, CD95, CD4, CD28, CD25, CD56, CD3, CD279 (PD1), CD16, CD38, CD19, CD183 (CXCR3), CD45RA, CD366 (TIM-3), KLRG1, CD8, CD223 (LAG-3), CD127, CD185 (CXCR5), CD14, HLA-DR, CD196 (CCR6), CD197 (CCR7), TIGIT, CD194 (CCR4), CD45	Human	PBMC	Flow Cytometry	BD A5SE	GCLP	Live Cell	FFP Validation
TGF-b1		Human	Urine	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
Thrombomodulin	THBD	Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
TNF-a		Human	Plasma	bead-based LBA	Luminex	GCLP	Biomarkers	Experienced
TNF-α		Human	Serum	Electrochemiluminescence (ECL)	MSD V-PLEX	GCLP	Biomarkers	Experienced
Total Tau		Human	Plasma	EIA/LBA	ELISA (manual)	GCLP	Biomarkers	Experienced
Trastuzumab (Herceptin®) ADA	Herceptin	Human	Serum	EIA/LBA	MSD	GCLP	ADA Assays	Coming soon
Trastuzumab (Herceptin®) PK	Herceptin	Human	Serum	EIA/LBA	ELISA (manual)	GCLP	PK Assays	Coming soon
TSLP	Thymic Stromal Lymphopoietin	Human	Sputum, Serum	Electrochemiluminescence (ECL)	MSD S-PLEX	GCLP	Biomarkers	Experienced
TSO500		Human	FFPE, Streck Cell Free ctDNA	NGS	Illumina (NextSeq, NovaSeq)	GCLP	Genomics; Sequencing	GCLP Validation
Whole Exome Sequencing (WES) - Germline		Human	FFPE, Saliva, Buccal Swab, Whole Blood, Tissue Biopsy	NGS	Illumina (NextSeq, NovaSeq)	GCLP, RUO	Genomics; Sequencing	GCLP Validation
Whole Exome Sequencing (WES) - Somatic		Human	FFPE	NGS	Illumina (NextSeq, NovaSeq)	GCLP, RUO	Genomics: Sequencing	FFP Qualification
Whole Genome Sequencing (WGS) - Human		Human	Saliva, Buccal Swab, Whole Blood, Tissue Biopsy	NGS	Illumina (NextSeq, NovaSeq)	GCLP, RUO	Genomics; Sequencing	Coming Soon
WPRE RT-qPCR	woodchuck hepatitis virus post-transcriptional regulatory element	Human	PBMC, Bone marrow	RT-qPCR	ABI Thermocycler	GCLP	Safety Testing	Experienced