

**CLINICAL VIROLOGY LABORATORY, YALE NEW HAVEN HOSPITAL: TESTS PERFORMED – February 2025**

Category	Test	Samples to submit
<b>C. difficile (n=2)</b>		
	Xpert C. difficile Toxin B PCR (Cepheid), reflex to toxin	Stool, semisolid or liquid
	C. difficile bacterial toxin by membrane EIA (C. Diff Quik Chek Complete)	Stool, semisolid or liquid
<b>Molecular virology tests (n=34)</b>		
<b>Commercial kits</b> (n=12)	HIV-1 RT-PCR, Quantitative (Roche 6800)	Plasma
	HCV RT-PCR, Quantitative (Roche 6800)	Serum
	HBV DNA PCR, Quantitative (Roche 6800)	Serum
	CMV DNA PCR, Quantitative (Roche 6800)	Plasma
	SARS CoV-2, Influenza A&B RT PCR (Roche 6800)	NP, OP, mid-turbinate
	SARS CoV-2 RT-PCR (Roche 6800)	NP, OP, mid-turbinate
	SARS CoV-2 RT-PCR (Cepheid)	NP, OP, mid-turbinate
	SARS CoV-2, Influenza A&B, RSV RT PCR 4-plex (Cepheid)	NP, OP, mid-turbinate
	SARS CoV-2, Influenza A&B, RSV RT PCR 4-plex (Panther Fusion)	NP, OP, mid-turbinate
	Influenza A & B, RSV, Parainfluenza types 1-4, Adenovirus/HMPV/Rhinovirus RT-PCR (Panther Fusion)	NP swab, BAL, sputum
	Norovirus genogroups I and II (Cepheid)	Stool
	Monkeypox PCR panel (Orthopox and Monkeypox West African clade) (Cepheid) 2025	Lesion swab
	<i>Note: Verigene Enteric Panel in Microbiology includes 6 bacteria, norovirus and rotavirus</i>	Stool
<b>Lab-developed</b> (n=21)	Enterovirus 2-step RT-PCR (TaqMan)	CSF, serum, throat, stool
	Parechovirus 1-16 1-step RT-PCR (TaqMan)	CSF, serum, throat, stool
	HSV DNA PCR, type common (TaqMan)	CSF, ocular fluid, & other
	HSV-1 and HSV-2 multiplex type-specific PCRs	To type samples positive by screen
	HSV-1 and 2 Direct PCR, swab (TaqMan)	Swab samples only
	VZV DNA PCR (TaqMan)	CSF, ocular fluid, & other
	VZV Direct PCR, swab (TaqMan)	Swab samples only
	CMV DNA PCR, Qualitative (TaqMan)	BAL, saliva, urine, amniotic, ocular, CSF, tissue
	EBV DNA PCR (TaqMan)	CSF, ocular fluid, tissue
	EBV PCR Quantitative (TaqMan) ( <i>to transition to Roche 6800</i> )	Plasma
	HHV-6 type common PCR, (TaqMan)	CSF, tissue
	HHV-6 type common PCR, Quantitative (TaqMan)	plasma
	Parvovirus B19 PCR (TaqMan)	Serum, bone marrow, amniotic fluid, CSF
	JC virus PCR (TaqMan)	CSF, urine
	BK virus genotypes 1-6 multiplex PCR, Quantitative (TaqMan) ( <i>to transition to Roche 6800</i> )	Plasma (lavender tube), urine
	Adenovirus DNA PCR (TaqMan)	Stool, urine, tissue
	Adenovirus PCR, Quantitative (TaqMan))	Plasma (lavender tube)
	Influenza A seasonal H1, H1pdm09, and H3 subtype RT-PCRs (TaqMan)	Respiratory samples (Flu A positive)
	Monkeypox PCR panel (Orthopox and Monkeypox West African clade)	Lesion swab
	Coronavirus 229E/OC43/NL63/ HKU1 (Panther Fusion)	NP, BAL, sputum, lung tissue
	Influenza A & B, RSV, Parainfluenza types 1-4, Adenovirus/HMPV/Rhinovirus RT-PCR (Panther Fusion)	BAL, sputum, lung tissue [only NP swab is FDA cleared]
<b>Viral serology tests (n=30)</b>		
<b>ARCHITECT</b>	HAV IgM and IgG CLIA (Architect)	Serum
	HBsAg, anti-HBs, anti-HBc total CLIA (Architect)	Serum
	HCV CLIA (Architect)	Serum
	HIV 1, 2 Ab /Ag 4 <sup>th</sup> generation combo CLIA (Architect)	Serum
<b>LIAISON</b>	CMV IgM and IgG CLIA (LIAISON XL)	Serum
	EBV VCA IgM and IgG, EBNA by CLIA (LIAISON XL)	Serum
	HSV-1 and HSV-2 IgG CLIA (LIAISON XL)	Serum
	Measles, Mumps, and Rubella IgG CLIA (LIAISON XL)	Serum
	VZV IgG CLIA (LIAISON XL)	Serum
<b>Manual</b>	HIV-1, 2 antibody differentiation by lateral flow (Biorad Geenius)	Serum
	Heterophile (lateral flow)	Serum
	Parvovirus B19 IgM and IgG ELISA (Biotrin, Diasorin manual)	Serum
	West Nile IgM and IgG ELISA (Focus, manual)	CSF, serum
<b>Syphilis serology</b> (n=3)	Treponema pallidum antibody with reflex (LIAISON XL)	Serum
	Rapid plasma reagin (RPR card test, Cardinal)	Serum
	T. pallidum antibody by TP-PA (Serodia, Fujirebio)	Serum
<b>Toxoplasma gondii</b> (n=2)	Toxoplasma gondii IgM and IgG (LIAISON XL)	Serum