

CLINICAL VIROLOGY LABORATORY, YALE NEW HAVEN HOSPITAL: TESTS PERFORMED – September 2024

Category	Test	Samples to submit	
C. difficile (n=2)			
	Xpert <i>C. difficile</i> Toxin B PCR (Cepheid), reflex to toxin	Stool, semisolid or liquid	
	<i>C. difficile</i> bacterial toxin by membrane EIA (C. Diff Quik Chek Complete)	Stool, semisolid or liquid	
Molecular virology tests (n=34)			
Commercial kits (n=13)	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 RT-PCR (Cepheid)	NP, OP, mid-turbinate	
	SARS CoV-2 RT-PCR (Roche 6800)	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	
	SARS CoV-2, Influenza A&B RT PCR (Roche 6800)	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) <i>late 2024</i>	Lesion swab	
	Human papillomavirus (HPV-16, HPV-18 and 12 pooled high-risk types). (Roche 6800)	cervical swab (Thin Prep)	
	<i>Note: Verigene Enteric Panel in Microbiology includes 6 bacteria, norovirus and rotavirus</i>	Stool	
	Lab-developed (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]		
Viral serology tests (n=30)			
ARCHITECT	HAV IgM and IgG CLIA (Architect)	Serum	
	HBsAg, anti-HBs, anti-HBc IgM and anti-HBc total CLIA (Architect)	Serum	
	HCV CLIA (Architect)	Serum	
	HIV 1, 2 Ab /Ag 4 th generation combo CLIA (Architect)	Serum	
LIAISON	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	
Manual	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	
Syphilis serology (n=3)	<i>Treponema pallidum</i> antibody with reflex (LIAISON XL)	Serum	
	Rapid plasma reagin (RPR card test, Cardinal)	Serum	
	<i>T. pallidum</i> antibody by TP-PA (Serodia, Fujirebio)	Serum	
Toxoplasma gondii (n=2)	<i>Toxoplasma gondii</i> IgM and IgG (LIAISON XL)	Serum	