

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

Category	Test	Samples to submit
C. difficile (n=2)		
	Xpert C. difficile Toxin B PCR (Cepheid), reflex to toxin	Stool, semisolid or liquid
	C. difficile bacterial toxin by ELISA (C. Diff Quik Chek Complete)	Stool, semisolid or liquid
Molecular tests		
Commercial reagents	HIV-1 RT-PCR, Quantitative (Roche 6800)	Plasma
(n=14)	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, Roche 6800)	NP, OP, mid-turbinate
	SARS CoV-2 TMA (Hologic Panther)	NP, OP, mid-turbinate
	SARS CoV-2, Influenza A&B, RSV RT PCR 4-plex (Cepheid, 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) [4 HCoV to be added Feb. 2024]	NP swab, BAL, sputum
	Norovirus genogroups I and II (Cepheid) to be added Feb. 2024	Stool
	Monkeypox PCR panel (Orthopox and Monkeypox West African clade) (Cepheid)	Lesion swab
	<i>Note: GI panel performed in Microbiology includes norovirus and rotavirus when comprehensive diagnosis is indicated</i>	
	Human papillomavirus (HPV-16, HPV-18 and 12 pooled high risk types). (Roche 6800) to be added in early 2024	Thin Prep Pat Test PreservCyt Solution
Lab-developed	Enterovirus 2-step RT-PCR (TaqMan)	CSF, serum, throat, stool
(n=22-29)	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 Qualitative and Quantitative (TaqMan)	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)	Plasma (lavender tube), urine
	Adenovirus DNA PCR (TaqMan)	Stool, urine, tissue
	Adenovirus PCR, Quantitative (TaqMan)	Plasma (lavender tube)
	Norovirus genogroups I and II multiplex RT-PCR (TaqMan)	Stool
	Influenza A seasonal H1, H1pdm09, and H3 subtype RT-PCRs (TaqMan)	Respiratory samples (Flu A positive)
	SARS CoV-2 RT-PCR (CDC assay, TaqMan)	NP, OP, mid-turbinate, BAL, sputum, saliva
	Monkeypox PCR panel (Orthopox and Monkeypox West African clade)	Lesion swab
	Respiratory real-time PCR panel: Adenovirus; Influenza A & B, RSV A/B, HMPV, Parainfluenza 1-4, Rhinovirus, Coronavirus 229E/OC43/NL63/ HKU1 (TaqMan)	Respiratory samples, including BAL, sputum, lung tissue
Viral serology tests (n=25)		
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
	<i>HBeAg and anti-HBe (to be sent out in 2024)</i>	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