

CLINICAL VIROLOGY LABORATORY YALE NEW HAVEN HOSPITAL
TESTS PERFORMED: January 2017

Category	Test	Samples to submit
Viral antigen		
(n=9)	Respiratory virus DFA (RSV, influenza A & B, parainfluenza types 1-3, adenovirus)	Respiratory samples
	Human metapneumovirus (HMPV) DFA	Respiratory samples
	Rotavirus EIA	Stool
Viral Culture		
(n=2)	Conventional cell culture	All sample types except stool and CSF
	Rapid shell vial centrifugation culture, CMV	Urine, BAL, tissue (not blood)
C. difficile toxin		
(n=2)	Cytotoxin neutralization in cell culture	Stool
	<i>C. difficile</i> bacterial antigen and toxin by ELISA	Stool
Molecular tests		
Commercial reagents		
(n=6)	HIV-1 RT-PCR, Quantitative (Roche Ampliprep TaqMan)	Plasma
	HIV-1 resistance genotyping (Siemens TruGene)- <i>currently sent out</i>	Plasma
	HCV RT-PCR, Quantitative (Roche Ampliprep TaqMan)	Serum
	HCV genotyping (Line Probe Assay)	Serum
	HBV DNA PCR, Quantitative (Roche Ampliprep TaqMan)	Serum
	CMV DNA PCR, Quantitative (Roche Ampliprep TaqMan)	Plasma
Lab-developed		
(n=27 w/ multiplex)	Enterovirus 2-step RT-PCR (TaqMan)	CSF, serum, throat, stool
(n=31 singleplex)	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)*	Respiratory samples, stool, urine, tissue
	Adenovirus PCR, Quantitative (TaqMan))	Plasma (lavender tube)
	Norovirus genogroups I and II multiplex RT-PCR (TaqMan)	Stool
	Influenza A and B multiplex and single RT-PCRs (TaqMan)*	Respiratory samples
	Influenza A seasonal H1 and H3 subtype RT-PCRs (TaqMan)	Respiratory samples (Flu A positive)
	Influenza Swine A and SwH1 subtype RT-PCRs (TaqMan)	Respiratory samples
	RSV A and B multiplex RT-PCR (TaqMan)*	Respiratory samples
	Human metapneumovirus RT-PCR (TaqMan)*	Respiratory samples
	Rhinovirus one-step RT-PCR (TaqMan)*	Respiratory samples
	Parainfluenza virus types 1, 2, 3 Multiplex PCR (TaqMan)*	Respiratory samples
Viral antibody tests		
(n=29)	CMV IgM and IgG CLIA (LIAISON XL)	Serum
	EBV VCA IgM and IgG, EBNA by CLIA (LIAISON XL)	Serum
	Heterophile (monospot) by lateral flow	Serum
	HAV IgM and IgG CLIA (LIAISON XL)	Serum
	HBsAg, anti-HBs, anti-HBc IgM and anti-HBc total CLIA (Architect)	Serum
	HBeAg and anti-HBe (ELISA manual)	Serum
	HCV CLIA (Architect)	Serum
	HIV 1, 2 Ab /Ag 4 th generation combo CLIA (Architect)	Serum
	HIV 1, 2 rapid Oraquick (lateral flow)	Plasma (whole blood), serum
	HIV-1, 2 antibody differentiation (HIV-1/2 Geenius)	Serum
	HSV-1 and HSV-2 IgG CLIA (LIAISON XL)	Serum
	HTLV I/II ELISA (manual)	Serum
	Measles, Mumps, and Rubella IgG CLIA (LIAISON XL)	Serum
	Parvovirus B19 IgM and IgG ELISA (manual)	Serum
	VZV IgG CLIA (LIAISON XL)	Serum
	West Nile IgM and IgG ELISA (manual)	CSF, serum
Syphilis serology		
(n=3)	<i>Treponema pallidum</i> antibody with reflex (LIAISON XL)	Serum
	Rapid plasma reagin (RPR)	Serum
	<i>T. pallidum</i> antibody by TP-PA	Serum

*Tests offered as part of a 9-virus respiratory virus PCR panel. [RSV A, B, influenza A & B, parainfluenza types, 1, 2, 3, HMPV, adenovirus, rhinovirus]