

**CLINICAL VIROLOGY LABORATORY, YALE NEW HAVEN HOSPITAL**  
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**TESTS PERFORMED: July 2011**

Category	Test	Samples to submit
<b>Viral antigen</b>		
(n=12)	HSV and VZV DFA	Skin lesions, mucosal lesions, BAL, tissue
	Respiratory virus DFA (RSV, influenza A & B, parainfluenza types 1-3, adenovirus)	Respiratory samples
	Human metapneumovirus (HMPV) DFA	Respiratory samples
	Rotavirus EIA	Stool
<b>Viral Culture</b>		
(n=4)	Conventional cell culture	All sample types
	HSV culture	All sample types
	Rapid shell vial centrifugation culture, CMV	Urine, BAL, tissue (not blood)
	HSV susceptibility to acyclovir (plaque reduction)	HSV isolate in cell culture
<b>C. difficile</b>		
(n=2)	Cytotoxicity neutralization in cell culture	Stool
	C. difficile bacterial antigen by ELISA	Stool
<b>Molecular tests</b>		
<b>Commercial reagents</b>		
(n=6)	HIV-1 RT-PCR, Quantitative (Roche Ampliprep TaqMan)	Whole blood (lavender), plasma
	HIV-1 DNA PCR, Qualitative (Roche)	Whole blood (lavender), PBMCs
	HIV-1 resistance genotyping (Siemens TruGene)	Whole blood (lavender or yellow top), plasma
	HCV RT-PCR, Quantitative (Roche Ampliprep TaqMan)	Serum
	HCV genotyping (Line Probe Assay)	Serum
	HBV DNA PCR, Quantitative (Roche Ampliprep TaqMan)	Serum
<b>Laboratory developed</b>		
(n=32)	Adenovirus DNA PCR (TaqMan)*	Respiratory samples, stool, urine, tissue
	Adenovirus PCR, Quantitative (TaqMan))	Plasma (lavender tube)
	BK virus PCR (TaqMan)	Urine
	BK virus genotypes 1-6 multiplex PCR, Quantitative (TaqMan)	Plasma (lavender tube)
	CMV DNA PCR (TaqMan)	CSF, ocular fluid, plasma, amniotic fluid
	CMV DNA PCR, Quantitative (TaqMan)	Whole blood (lavender tube), plasma
	Enterovirus 2-step RT-PCR (TaqMan)	CSF, serum, throat, stool
	EBV PCR Qualitative and Quantitative (TaqMan)	CSF, ocular fluid, plasma
	HSV DNA PCR (TaqMan), type common	CSF, ocular fluid, & other
	HSV-1 and HSV-2 multiplex type-specific PCRs	
	HHV-6 type common PCR, Qualitative and Quantitative (TaqMan)	CSF, plasma, tissue
	Human metapneumovirus RT-PCR (TaqMan)*	Respiratory samples
	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
	JC virus PCR (TaqMan)	CSF
	Norovirus genogroups I and II multiplex 2-step RT-PCR (TaqMan)	Stool
	Parvovirus B19 PCR (TaqMan)	Serum, bone marrow, amniotic fluid, CSF
	Parainfluenza virus types 1, 2, 3 multiplex & single PCRs (TaqMan)*	Respiratory samples
	RSV A and B multiplex RT-PCR (TaqMan)*	Respiratory samples
	Rhinovirus one-step RT-PCR (TaqMan)*	Respiratory samples
	VZV DNA PCR (TaqMan)	CSF, ocular fluid, & other
<b>Viral antibody tests</b>		
(n=33)	CMV IgM and IgG CLIA (LIAISON)	Serum
	EBV VCA IgM and IgG, EBNA by CLIA (LIAISON)	Serum
	EBV VCA IgM and IgG, EBNA by IF	Serum
	Heterophile (monospot)	Serum
	HAV IgM and HAV total antibody CLIA (LIAISON)	Serum
	HBsAg, anti-HBs, anti-HBc IgM and anti-HBc total (VITROS)	Serum
	HBeAg and anti-HBe (ELISA)	Serum
	HCV CLIA (VITROS)	Serum
	HCV immunoblot (RIBA)	Serum
	HIV 1, 2 plus O CLIA (VITROS)	Serum
	HIV 1, 2 rapid Oraquick	Serum, whole blood, oral secretions
	HIV-1 western blot	Serum
	HSV-1 and HSV-2 IgG CLIA (LIAISON)	Serum
	HTLV I/II ELISA (temporarily sent out due to lack of FDA cleared kits)	Serum
	Measles IgG ELISA (VITROS)	Serum
	Mumps IgG ELISA (VITROS)	Serum
	Parvovirus IgM and IgG ELISA (manual)	Serum
	Rubella IgG ELISA (LIAISON)	Serum
	VZV IgG ELISA (LIAISON)	Serum
	West Nile IgM and IgG ELISA (manual)	CSF, serum

\*Tests offered as part of a respiratory virus PCR panel. Viruses tested may vary with season.