

Molecular Microbiology Lab / JHH Medical Microbiology Division

Viruses

Test	Test code	Specimen types *	Vol requested	Analytical sensitivity [†]	Cut off: must receive by
EBV Quantitative (viral load)	7927	whole blood (at least two 3-ml purple top tubes)	2 x 3 ml (more if low WBC)	50 copies/10 ⁵ lymphs, measure 1.7-7 log ₁₀ copies/10 ⁵ lymphs	8 AM Tues, Thurs
EBV Qualitative	7122	CSF	1.0 ml total if multiple tests ordered ‡ Exception for vesicle: swab fluid & send in 2 ml viral transport medium (VTM)	6-60 copies/rxn	8 AM Mon - Fri
CMV	7130	CSF vitreous humor amniotic fluid BAL		20-200 copies/rxn	
HSV 1+2	7135	CSF vitreous humor BAL		10 copies/rxn	
VZV	7131	CSF vitreous humor vesicle fluid (VTM ok [†]) BAL retinal biopsy		10 copies/rxn	
JC	7901	CSF		100 copies/rxn	
JC Quantitative (viral load)	7305	Plasma (purple or PPT)	1.0 ml	400 copies/ml, measure 2.6 to 7.5 log ₁₀ copies/ml	8 AM Thurs
Enteroviruses	7113	CSF respiratory specimens in Viral Transport stool or rectal swabs plasma (purple or PPT)	1.0 ml	0.1 pfu/ml	8 AM Mon - Fri
CMV Quantitative (viral load)	7929	<u>Plasma - use PPT tubes!!</u> <i>Separate & freeze within 4 hr of collection!!</i> PPT = plasma preparation tube	1.0 ml	300 copies/ml, measure 2.5-8.0 log ₁₀ copies/ml	12 Noon Mon - Fri
CMV Genotype	7921	Plasma (purple or PPT) culture isolates BAL fresh tissue	Fluids: 0.5 ml Tissue: 40mg	unknown	Call lab 5-2642 for more info
Parvovirus B19	7127	Plasma (purple or PPT) or serum (red) bone marrow (purple) amniotic fluid	1.0 ml	100 copies/rxn	8 AM Mon - Fri
BK Quantitative (viral load)	7951	Plasma (purple or PPT)	1.0 ml	200 copies/ml, measure 2.3 to 7.0 log ₁₀ copies/ml	9 AM Mon, Wed, Fri
BK Qualitative	7129	Urine	1.0 ml total for one or both viruses	10 copies/rxn	
Adenovirus	7109	Urine		1 copy/rxn	
Adenovirus Quantitative (viral load)	7955	Plasma (purple or PPT)	1.0 ml	100 copies/rxn	
Adenovirus Genotype	7952	Plasma (purple or PPT)	1.0 ml		Call lab 5-2642 for more info
HPV high risk (Hybrid Capture)	7919	Post-Autocyte Pap-smear preps cervical samples (Digene devices only)	Requests must go through Cytopathology !!!		7:30 AM Tues & Thurs

Hepatitis

Test	Code	Specimen: plasma*	Vol	Analytical sensitivity [†]	Cut off: must receive by
HBV DNA Quantitative	6046	<u>Use PPT tubes!!</u> <u>Centrifuge, Separate & freeze within 4 hr of collection!!</u>	1.0 ml	29 IU/ml, measure 1.46 to 8.04 log ₁₀ IU/ml	7:30 AM Thurs
HCV RNA Quantitative	2915		2.0 ml	43 IU/ml, measure 1.63 to 7.8 log ₁₀ IU/ml	7:30 AM Tues, Wed, Thurs
HCV Genotype	7195		0.5 ml	≈ 11,000 IU/ml	7:30 AM Mon

Bacteria

Test	Code	Specimen types / requested volumes	Vol.	Analytical sensitivity [†]	Cut off: must receive by
Ehrlichia (HGE & HME)	8526	whole blood (purple)	1.0 ml	Send Out	8 AM Mon - Fri
Mycoplasma pneumoniae	7106	throat swab (dry) throat swab (in Viral Transport) BAL	BAL= 2.0 mls		
Legionella pneumophila	7107	BAL	BAL = 1.0 ml		
Chlamydia pneumoniae	7110	throat swab (dry) throat swab (in Viral Transport) BAL	BAL= 1.0 ml		
Bordetella pertussis	7111	NP swab using rayon swab in pertussis pack		0.2 cfu/rxn	7 PM Mon - Fri
CT/NG (<i>Chlamydia trachomatis</i> / <i>Neisseria gonorrhoeae</i>)	7196- CT 7197- NG	Endocervical, urethral, rectal or throat swabs in Aptima Unisex Swab Kit Conjunctival swabs: in 3 ml of M4 media Urine: 10 to 15 cc with 2ml transferred into Aptima Urine Kit		CT: 5 IFU/ml (urine), 7.25 IFU (swab) NG: 250 cells/ml (urine) 362 cells (swab)	Anytime (assay Mon - Fri)

* No green top tubes! Heparin interferes with PCR.

[†] Analytical sensitivity for purified DNA - this may or may not correlate with clinical sensitivity; for culturable viruses, sensitivity is generally similar to or higher than that of cell culture. "Measure" indicates measurable range for quantitative assays.

Methodologies employed: HCV Genotyping and CMV Genotyping are sequenced-based, CT/NG are TMA – Transcription-Mediated Amplification, and the remaining assays are Real Time PCR-based.

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