



**Legacy Laboratory Services  
Cerebrospinal Fluid INSTRUCTIONS**

Physician Order	Millennium Order	Acceptable Specimen	Lab Instructions
<b>Chemistry</b>			
CSF Analysis (CSF CC & Diff, CSF Total Protein, CSF Glucose, CSF Xantho)	CSF ANALYS	Sterile container 2.0 mL; need two aliquots One centrifuged for Chem, One unspun for Heme  Transport refrigerated	Site Chemistry Site Hematology  Not performed at site, then send to Central Lab
CSF Albumin	CSF ALB	Sterile container, 1.0 mL Transport refrigerated	Send to Central Lab using transfer list location LCL Central lab
CSF Chemistry Panel (CSF Total Protein, CSF Glucose, CSF Xantho)	CSF CHEM	Sterile container 1.0 mL; centrifuge aliquot Transport refrigerated	Site Chemistry Not performed at site, then send to Central Lab
Chloride, Cerebrospinal Fluid	BF CL	Sterile container 1.0 mL; centrifuge aliquot Transport refrigerated	Send to Emanuel Lab Using transfer list EH LAB
CSF Glucose	CSF GLU	Sterile container 1.0 mL; centrifuge aliquot Transport refrigerated	Send to Central Lab
CSF Lactate	CSF LACT	Sterile container 1.0 mL; centrifuge aliquot Transport refrigerated	Send to Emanuel Lab Using transfer list EH LAB
CSF Lactic Acid Dehydrogenase	CSF LDH	Sterile container 1.0 mL; centrifuge aliquot Run immediately at Room Temp OR Transport refrigerated	Send to Emanuel Lab Using transfer list EH LAB
CSF No.1 Specific Gravity	CSF SG 1	Sterile container, 1.0 mL Transport refrigerated	Send to Emanuel Lab Using transfer list EH LAB
CSF Total Protein	CSF TP	Sterile container 1.0 mL; centrifuge aliquot Transport refrigerated	Site Chemistry
CSF Xanthochromia (Included in Chemistry Panel)	CSF XANTH	Sterile container, 1.0 mL Transport refrigerated	Site Chemistry



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<b>Hematology, Cytology &amp; Flow</b>			
CSF Analysis (CSF CC & Diff, CSF Total Protein, CSF Glucose, CSF Xantho)	CSF ANALYS	Sterile container 2.0 mL; need two aliquots One centrifuged for Chem, One unspun for Heme  Transport refrigerated	Site Chemistry Site Hematology  Not performed at site, then send to Central Lab
CSF Cell Count & Differential (CSF Cell Count 1 and CSF Differential 1)	_CSF CC1 _CSF DIF 1	Sterile container, 1.0 mL Transport refrigerated	Site Hematology
CSF Cell Count 1 (Performed on last tube collected)	_CSF CC1	Sterile container, 1.0 mL Transport refrigerated	Site Hematology
CSF Differential 1 (Performed on last tube collected)	_CSF DIF 1	Sterile container, 1.0 mL Transport refrigerated	Site Hematology
CSF Additional Cell Count (Performed on first tube collected)	CSF CCA	Sterile container, 1.0 mL Transport refrigerated	Site Hematology
CSF Pathologist Differential Slide Review	CSF DIFF REV	Cytospin smear	Send to Central Lab
Cytology CSF	CYTO CSF	Sterile container, 2.0 mL Transport refrigerated	Send to Central Lab using transfer list location HP CYTOL LAB
Flow Studies	ATTN FLOW	Sterile container, 1-3 mL CSF ASAP: Centrifuge, decant supernate and resuspend CSF cell pellet in 2 mL RPMI at room temperature	Send to Central Lab using transfer list location LCL-AP2 <sup>nd</sup>
<b>Microbiology &amp; Serology</b>			
Cryptococcal Antigen	CNEO AG	Sterile container, 1.0 mL Transport at room temperature	Site Microbiology
Culture CSF (includes gram stain)	C CSF	Sterile container, 1.0 mL STAT Transport at room temperature	Site Microbiology



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<b>Microbiology &amp; Serology</b>			
CSF Enterovirus PCR	CSF EV PCR	Sterile container, 0.5 mL Transport refrigerated	Send to Central Lab
Culture Fungus	C F	Sterile container, 1.0 mL Transport at room temperature	Site Microbiology
CSF Meningitis PCR Panel with Culture CSF (includes the following tests: CSF EC K1 PCR, CSF H Flu PCF CSF L monocyte PCR CSF N mening PCR CSF GBS PCR CSF S pneumo PCR CSF CMV PCR CSF Enterovirus PCR CSF HSV1 PCR CSF HSV2 PCR CSF HHV6 PCR CSF Parechovirus PCR CSF VZV PCR CSF C Neo/gattii PCR)	CSF MEN PAN  NOTE: Must have Culture CSF ordered as well.	Sterile container, 1.0 mL Transport refrigerated	Send to CL Using transfer list LCL Micro-2nd
CSF VDRL	CSF VDRL	Sterile container, 0.5 mL Transport refrigerated	Send to Central Lab
<b>Protein Chemistry &amp; Send-out testing</b>			
CSF 14-3-3 Protein	CSF 14-3-3	Sterile container, 1.0 mL immediately place aliquot on ice. Transport refrigerated	Send to Central Lab referrals using transfer list location LCL Central lab
CSF Adenosine Deaminase	CSF ADA	Centrifuge aliquot 0.3 mL Transport Frozen	Send to Central Lab referrals using transfer list location LCL Central lab
CSF Amino Acids Quantitative	CSFAA QNT	Sterile container 0.5 mL <b>CRITICAL FROZEN</b>	Send to Central Lab referrals using transfer list location LCL Central lab



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<b>Protein Chemistry &amp; Send-out testing</b>			
CSF Angiotensin Convert Enzyme	ACE-CSF	Sterile container, 1.0 mL Transport Frozen	Send to Central Lab referrals using transfer list location LCL Central lab
Herpes Simplex Virus CSF/BAL by PCR	HSV CSF/BAL PCR	Sterile container, 1.0 mL Transport Frozen	<b>STAT</b> Handling Send to Central Lab referrals using transfer list location LCL Central lab
CSF Immunoglobulin G	CSF IGG	Sterile container, 1.0 mL Transport refrigerated	Send to Central Lab
CSF John Cunningham (JC) Virus	CSF JCV	Sterile container, 0.5 mL Transport refrigerated	Send to Central Lab referrals using transfer list location LCL Central lab
Multiple Sclerosis Screen Includes CSF IgG Index (CSF IgG, CSF Albumin, Serum IgG, Serum Albumin), Oligonal bands, IgG Synthesis Rate, CSF Total Protein	MS	2.0 mL Serum 2.5 mL CSF, sterile container Transport Refrigerated	Send to Central Lab
Miscellaneous Lab Order Enter West Nile Virus Antibodies, IgG & IgM, CSF, ARUP test code: 0050228 in comment field	HOLDREF RFG Enter West Nile Virus Antibodies, IgG & IgM, CSF, ARUP test code: 0050228	Sterile container, 2.0 mL Transport refrigerated	Send to Central Lab referrals using transfer list location LCL Central lab