

LAB210 Cell Count with Reflex to WBC Differential, Body Fluid

BMC

Specimen Type

Body Fluid

Specimen Required

Lavender top

Minimum Volume to Submit for Testing

1.0 mL Body fluid

Storage Requirements

Room Temperature up to 2 hours then refrigerate at 2-8°C up to 24 hours.

Transportation Needs

Deliver specimen to the laboratory within 1 hour of collection.

If not possible see “Storage Requirements”

Causes for Rejection

Mislabeled or unlabeled specimen

>2 hours room temperature

> 24 hours refrigerated

Clotted samples – Cytospin differential only will be performed

Insufficient sample for analysis

Sample received in any anticoagulant other than K2EDTA

Sample received in a 6.0 mL pink vacutainer

Reference Values

Serous Fluids (pleural, peritoneal, ascites, pericardial, peritoneal lavage, and dialysate)				
Source	Erythrocyte Count (cells/ μ L)	Leukocyte Count (cells/ μ L)	Neutrophils	Appearance
Pleural	< 10,000 >100,000 (suggests a neoplasm, trauma, or pulmonary infarction)	< 1,000-implies a transudate >1,000-implies an exudates		Clear, colorless to pale yellow; does not clot
Pericardial	< 10,000 >100,000-suggests a neoplasm, trauma, or pulmonary infarction	< 1,000-implies a transudate >1,000-implies an exudates		Clear, colorless to pale yellow; does not clot
Peritoneal	< 10,000	< 500	<25%	Clear, colorless to pale yellow; does not clot
Peritoneal Lavage	< 100,000	< 200		Clear, colorless to pale yellow; does not clot

Peritoneal Dialysate	N/A	< 50		Clear, colorless to pale yellow; does not clot
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SYNOVIAL FLUIDS:	
Parameter	Normal
Total Volume	< 4.0 mL
Appearance	Clear, colorless to pale yellow
Viscosity	High; does not clot
Erythrocyte Count	0
Leukocyte Count	0-150 cells/ μ L
Neutrophils	Approx. 10%
Lymphocytes	Approx. 30%
Monocytes and macrophages	Approx. 60%

Critical Values
Dialysis Peritoneal Fluid: WBC > 100 cells/ μ L

Includes

Automated or manual enumeration of WBC's and RBC's and differential cell count (percentages of each cell identified) from a cytocentrifuged and Wright-Giemsa stain when WBC \geq 6 cells/uL.

Available STAT

Yes

Methodology

Primary: Automated

Secondary: Manual cell count using hemocytometer

Slide prepared using cytocentrifugation and Wright-Giemsa stain

Microscopic examination of stained smear

CPT Code

89051