**Orderable - CDF**

*Turn Around Time: 4 hours*

**Alternate Name(s):**
Body Fluid Analysis (other than CSF)

**Specimen:**
Eligible fluids types include: synovial, pericardial, pleural, peritoneal tap, peritoneal dialysate, peritoneal lavage.

**Collection Information:**
A minimum volume of 1 mL collected in K₂EDTA.

**Reference Ranges:**

<table>
<thead>
<tr>
<th></th>
<th><strong>TNC X 10⁹/L</strong></th>
<th><strong>RBC X 10¹²/L</strong></th>
<th><strong>Appearance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synovial</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal</td>
<td>≤ 0.2</td>
<td>NA</td>
<td>Normal:</td>
</tr>
<tr>
<td>Group I</td>
<td>≤ 3.0</td>
<td></td>
<td>yellow,</td>
</tr>
<tr>
<td>Group II</td>
<td>3.0-75</td>
<td></td>
<td>clear or</td>
</tr>
<tr>
<td>Group IV</td>
<td>0.5-200</td>
<td></td>
<td>slightly</td>
</tr>
<tr>
<td>Group V</td>
<td>0.05-10</td>
<td></td>
<td>cloudy</td>
</tr>
</tbody>
</table>

| **Pleural**        |                 |                  |                |
| Exudate            | ≥ 1.0           |                  | Clear, pale,   |
| Effusion           | ≥ 10.0          |                  | yellow         |

**Laboratory:** Core Lab

**Requisition:**
GENERAL LABORATORY REQUISITION

**Method of Analysis:**
Total nucleated cell counts and RBC, if indicated, are performed by automated analysis on a Hematology analyzer or manual counted on a Neubauer chamber (when appropriate). Differentials performed by microscopy.

**Test Schedule:**
As required
**Pericardial**

- Normal: < 1.0
- Variable
- Variable

**Peritoneal Lavage**

- Normal: < 0.1
- Normal: < 0.025
- Normal: 
- Positive: ≥ 0.5
- Trauma: ≥ 0.100
- Clear, colourless

**Peritoneal Tap**

- Normal: < 0.3
- NA
- Normal: Clear
- Positive: ≥ 0.3
- pale yellow

**Peritoneal Dialysate**

- Normal: < 0.1
- NA
- Normal: Clear
- Positive: ≥ 0.1
- colourless

**Differential:**

- **Synovial**: < 25% neutrophils
- **Pleural**: Mononuclear Cells
- **Pericardial**: NA
- **Peritoneal Lavage**: NA
- **Peritoneal Tap**: Mononuclear Cells
- **Peritoneal Dialysate**: Mononuclear Cells
**Interpretive Comments:**

Body fluids are considered to be irreplaceable specimens and are analyzed regardless of whether there are clots or particular matter present. Counts may be inaccurate in these circumstances.

**Synovial Fluid Disease Category:**

Group I: Noninflammatory  
Group II: Inflammatory  
Group III: Infectious  
Group IV: Crystal-Induced  
Group V: Hemorrhagic

Differentials are performed on all peritoneal dialysate fluids.

Differentials are performed on peritoneal lavage, peritoneal tap, pleural and synovial fluids only if the TNC is > 0.3 x 10⁹/L.

**Special Processing:**

Synovial fluids are pretreated with hyaluronidase prior to testing.

**Storage and Shipment:**

Ship sample at room temperature.

Specimens must be received in the laboratory within 1 hour of collection as cells deteriorate quickly. Testing must proceed as quickly as possible following receipt in the laboratory.