Natural Killer Cell Function Assay  
Test Code: 30035

Clinical and Procedure

Clinical Utility
This assay evaluates the functional capacity of natural killer (NK) cells. NK cells mediate killing of virally infected cells and tumor cells. Decreased natural killer cell function has been observed in patients with recurrent viral infections and cancer patients.

Procedure
PBMCs are isolated from whole blood. Isolated PBMCs are mixed at various ratios with fluorescently labeled K562 target cells. Following an incubation period, the percent lysed K562 cells at each concentration are determined by flow cytometry.

Turnaround Time
2-3 business days from receipt of specimen

Specimen Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Order Code</th>
<th>CPT Code</th>
<th>NY Approved</th>
<th>Volume</th>
<th>Assay Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>whole blood</td>
<td>30035</td>
<td>88184, 88185 (x2)</td>
<td>Yes</td>
<td>12 mL</td>
<td>5.8-59.2 LU10</td>
</tr>
</tbody>
</table>

Special Instructions
- 12 mL of whole blood should be collected in an ACD tube.
- Blood must be drawn Monday - Thursday 11:00 AM - 5:00 PM Central Time.
- Ship with cold packs priority overnight on the same day as collection to meet the 23 hour requirement.

The LU10 value is the number of lytic sets contained within a population of 10 million lymphocytes. One lytic set is the number of lymphocytes required to lyse 10 percent of target cells. The reference range is 5.8-59.2 LU10. The reference interval is the central 95th percentile of range from a healthy adult population.

Shipping
Ship on cold packs, priority overnight

Causes for Rejection
Specimen greater than 23 hours old, tubes less than half full, hemolyzed samples, samples received ambient, anticoagulant other than ACD

Disclaimer
Specimens are approved for testing in New York only when indicated in the Specimen Information field above.

The CPT codes provided are based on Viracor Eurofins’ interpretation of the American Medical Association’s Current Procedural Terminology (CPT) codes and are provided for general informational purposes only. CPT coding is the sole responsibility of the billing party. Questions regarding coding should be addressed to your local Medicare carrier. Viracor Eurofins assumes no responsibility for billing errors due to reliance on the CPT codes illustrated in this material.
References


