MERCODIA OXIDIZED LDL ELISA
10-1143-01

WHEN ACCURACY MATTERS
www.mercodia.com
Intended use
A high quality enzyme immunoassay for the quantification of human oxidized LDL in serum or plasma.

Test principle
Mercodia Oxidized LDL ELISA is a solid phase two-site enzyme immunoassay based on the sandwich technique, in which two monoclonal antibodies are directed against separate antigenic determinants on the oxidized apolipoprotein B molecule. Oxidized LDL in the sample reacts with anti-oxidized LDL antibodies bound to microtitration wells and peroxidase-conjugated anti-oxidized LDL antibodies in the solution.

Measurement range
14 - 22.5 mU/L (8 - 150 U/l when multiplied with dilution factor)

Test characteristics

Sensitivity
The detection limit is < 1 mU/L calculated as three standard deviations above the Calibrator 0.

Recovery
Recovery upon addition is 85 - 107 % (95 %).

Precision
Each sample was analyzed in 3 - 8 replicates on 20 different occasions.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Mean value</th>
<th>Coefficient of variation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(mU/L)</td>
<td>within assay %</td>
</tr>
<tr>
<td>1</td>
<td>8.5</td>
<td>5.5</td>
</tr>
<tr>
<td>2</td>
<td>19</td>
<td>7.3</td>
</tr>
<tr>
<td>3</td>
<td>32</td>
<td>6.2</td>
</tr>
</tbody>
</table>

Performance limitations
Grossly lipemic, icteric or haemolyzed samples do not interfere in the assay.

Specificity
Specific for human oxidized LDL.

Samples
The recommended use of specimen in the Mercodia Oxidized LDL ELISA is fresh EDTA-plasma. Serum or heparin plasma may also be used. Samples are diluted 1/6561 in a two-step procedure in Sample Buffer:

1. Sample 25 μL
   Sample Buffer 2000 μL
   Cap tubes, invert 3 times and vortex
   Dilution 1/81

2. 1/81 dilution 25 μL
   Sample buffer 2000 μL
   Cap tubes, invert 3 times and vortex
   Dilution 1/6561

Catalog No
10-1143-01  1 x 96 wells