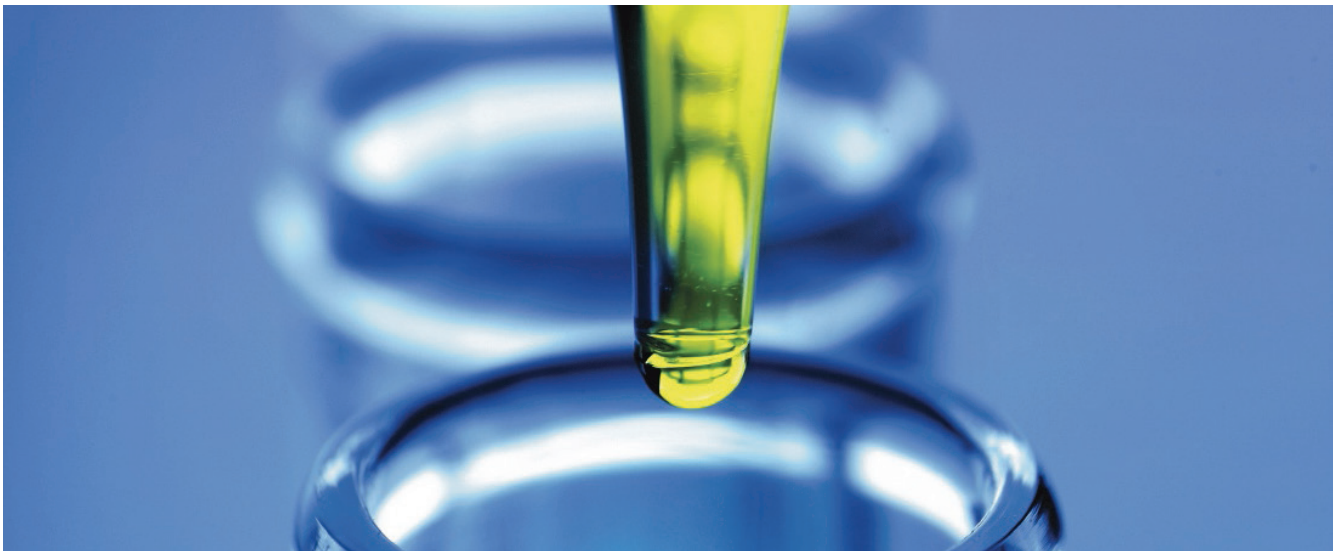
Mercodia
Developing diagnostics

MERCODIA OXIDIZED LDL ELISA

10-1143-01



WHEN ACCURACY MATTERS

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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.

Summary of protocol

- Add 25 µL Calibrators, controls and samples
- Add 100 µL Assay Buffer
- Incubate 2 hours on shaker at room temperature
- Wash plate 6 times
- Add 100 µL enzyme conjugate solution
- Incubate 1 hour on shaker at room temperature
- Wash plate 6 times
- Add 200 µL Substrate TMB
- Incubate 15 minutes at room temperature
- Add 50 µL Stop Solution
  Shake for approximately 5 seconds on shaker
- Measure at 450 nm

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

Measurement range

1.4 - 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.

Sample	Mean value	Coefficient of variation		
	(mU/L)	within assay %	between assay %	total assay %
1	8.5	5.5	6.2	8.3
2	19	7.3	4.0	8.3
3	32	6.2	4.0	7.4

Performance limitations

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

Specificity
Specific for human oxidized LDL.

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