

Mercodia Lp(a) ELISA

10-1106-01



www.mercodia.com

Intended use

A high quality enzyme immunoassay for the quantification of human lipoprotein(a) in serum or plasma.

Test principle

Mercodia Lp(a) 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 apolipoprotein(a) molecule. Apolipoprotein(a) in the sample reacts with anti-apolipoprotein(a) antibodies bound to microtitration wells and peroxidase-conjugated anti-apolipoprotein(a) antibodies in the solution.

Summary of protocol

- Add 25 µL Calibrators, controls and samples
- Add 50 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

Serum, EDTA and heparin plasma can be used.

Measurement range

0.3-5.0 U/L

Catalog No

10-1106-01 1 x 96 wells

Test characteristics

Sensitivity

The detection limit is 0.05 U/L calculated as three standard deviations above the Calibrator 0.

Recovery

Recovery upon addition is 96 - 111 % (102 %).

Precision

Samples pretreated and diluted 1/202 on one occasion and stored at -20°C until the assays were performed. Each sample was analysed in 4 replicates on 9 different occasions.

Sample	Mean value (µg/L)	Coefficient of variation		
		within assay %	between assay %	total assay %
1	83	3.3	4.0	5.2
2	196	2.9	3.6	4.7
3	485	2.4	1.8	3.0

Samples pretreated and diluted 1/202 on each test occasion. Each sample was analysed in 5 replicates on 5 different occasions.

Sample	Mean value (µg/L)	Coefficient of variation		
		within assay %	between assay %	total assay %
1	103	3.1	4.2	5.2
2	251	3.6	3.7	5.2
3	744	2.4	5.2	5.7

Performance limitations

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

Specificity

The following cross-reactions have been tested:

Plasminogen	n.s.
Apolipoprotein B	n.s.

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