

Mercodia Oxidized LDL ELISA

Directions for Use

10-1143-01 REAGENTS FOR 96 DETERMINATIONS

For in vitro diagnostic use



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Manufactured by

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EXPLANATION OF SYMBOLS USED ON LABELS

Σ = 96	Reagents for 96 determinations
	Expire date
	Store between 2–8°C
LOT	Lot No.
IVD	For <i>in vitro</i> diagnostic use

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INTENDED LISE

The Mercodia Oxidized LDL ELISA kit is intended to be used for the *in vitro* quantitative measurement of oxidized low density lipoproteins (oxidized LDL) in human blood serum or plasma. Lipoprotein measurements are used in the diagnosis and treatment of lipid disorders (such as diabetes mellitus), atherosclerosis, and various liver and renal diseases.

SUMMARY AND EXPLANATION OF THE TEST

The oxidative conversion of low density lipoproteins (LDL) to oxidized low density lipoproteins (oxidized LDL) is now considered to be a key event in the biological process that initiates and accelerates the development of the early atherosclerotic lesion, the fatty streak [1–5].

Experimental studies have shown that native LDL becomes atherogenic when it is converted to oxidized LDL, and that oxidized LDL is more atherogenic than native LDL[1–5]. Oxidized LDL is found in monocyte-derived macrophages in atherosclerotic lesions, but not in normal arteries [6]. The uptake of LDL into macrophages does not occur by way of the classic Brown/Goldstein LDL receptor [7]. Numerous studies [1–5,8] have established that LDL, the major carrier of blood cholesterol, must first be converted to oxidized LDL so that it can be recognized by "scavenger" or "oxidized LDL receptors" on monocyte-derived macrophages. The binding of oxidized LDL to macrophages is a necessary step by which oxidized LDL induces cholesterol accumulation in macrophages, thus transforming the macrophages into lipid-laden foam cells [8].

Holvoet and his colleagues [9] were the first to clearly demonstrate that patients with coronary artery disease had significantly elevated plasma levels of oxidized LDL, and that these circulating levels of oxidized LDL were very similar in patients with stable coronary artery disease and in patients with acute coronary syndromes. They found plasma oxidized LDL levels to be significantly higher in patients with stable angina, unstable angina and acute myocardial infarction when compared to age matched, presumably healthy control subjects.

In publications by Holvoet et al. [9-13], plasma oxidized LDL levels were measured by a competitive ELISA utilizing a specific murine monoclonal antibody mAb-4E6. It should be noted that the Mercodia Oxidized LDL ELISA kit uses the same specific murine monoclonal antibody, mAb-4E6, that Holvoet [9,10] used in his assays. However, the Mercodia assay kit is a capture ELISA (also known as a "sandwich" ELISA), in which the wells of the microtiter plates are coated with the capture antibody mAb-4E6.

Several noteworthy studies have been reported by clinical researchers who have used the Mercodia Oxidized LDL ELISA kits. Hulthe and Fagerberg [14] demonstrated the relationship between subclinical atherosclerosis and circulating oxidized LDL levels by showing that oxidized LDL levels were related to intima-media thickness and plaque occurrence in the carotid and femoral arteries. Sigurdardottir, Fagerberg and Hulthe [15] found elevated levels of oxidized LDL in patients with metabolic syndrome. In addition, they found that elevated oxidized LDL levels in metabolic syndrome patients were associated with small LDL-particle size. Kopprasch *et al.* [16] found elevated levels of circulating oxidized LDL in subjects with impaired glucose tolerance (IGT). And Duntas, Mantzou and Koutras [17] found significantly elevated plasma oxidized LDL levels in untreated patients with overt hypothyroidism.

At the American Heart Association Scientific Sessions 2002, Johnston *et al.* [18] reported that plasma levels of oxidized LDL were substantially higher in patients with unstable coronary artery disease compared to healthy controls. Most important, there was no significant difference

between the cholesterol levels of the unstable coronary artery disease patients and the healthy controls (References page 13).

PRINCIPLE OF THE PROCEDURE

Mercodia Oxidized LDL ELISA is a solid phase two-site enzyme immunoassay. It is based on the direct sandwich technique in which two monoclonal antibodies are directed against separate antigenic determinants on the oxidized apolipoprotein B molecule. During incubation oxidized LDL in the sample reacts with anti-oxidized LDL antibodies bound to microtitration well. After washing, which removes non-reactive plasma components, a peroxidase conjugated anti-huma polipoprotein B antibody recognizes the oxidized LDL bound to the solid phase. After a second incubation and a simple washing step that removes unbound enzyme labeled antibody, the bound conjugate is detected by reaction with 3,3′, 5,5′-tetramethylbenzidine (TMB). The reaction is stopped by adding acid to give a colorimetric endpoint, then read spectrophotometrically.

WARNINGS AND PRECAUTIONS

- For in vitro diagnostic use. Not for internal or external use in humans or animals.
- The content of this kit and their residues must not be allowed to come into contact with ruminating animals or swine.
- The Stop Solution in this kit contains 0.5 M H₂SO₄. Follow routine precautions for handling hazardous chemicals.
- All samples should be handled as capable of transmitting infections.
- Each well can only be used once.

Warning! This kit contains reagents that may be infectious!

This kit contains reagents manufactured from human blood components. The source of material have been tested by immunoassay for Hepatitis B surface antigen, antibodies for Hepatitis C virus and for antibodies for HIV virus and found to be negative. Nevertheless, all recommended precautions for the handling of blood derivatives should be observed. Please refer to HHS Publication No. (CDC) 88-8395 or corresponding local/national guidelines on laboratory safety procedures.

MATERIALS REQUIRED BUT NOT PROVIDED

- Pipettes with appropriate volumes (repeating pipettes preferred for addition of Assay Buffer, enzyme conjugate 1X solution, Substrate TMB and Stop Solution)
- Tubes, beakers and cylinders for reagent preparation
- Test tubes with caps for sample dilution, 3.5 mL
- · Redistilled water
- Magnetic stirrer
- Vortex mixer
- · Microplate reader with 450 nm filter
- Microplate shaker (700–900 cycles per minute, orbital movement)
- Microplate washing device with overflow function (recommended but not required)

REAGENTS

Each Mercodia Oxidized LDL ELISA kit contains reagents for 96 wells, sufficient for 40 samples, two Controls and one calibrator curve in duplicate. For larger series of assays, use pooled reagents from packages bearing identical lot numbers. The expiry date for the complete kit is stated on the outer label. The recommended storage temperature is 2–8°C.

Coated Plate Mouse monoclonal anti-oxidized	1 plate d LDL	96 wells 8-well strips	Ready for Use
For unused microplate strips, resand use within 2 months.	eal the bag using	adhesive tape, sto	re at 2–8°C
Calibrators 1, 2, 3, 4, 5 Human oxidized LDL Color coded yellow Concentration indicated on vial Storage after reconstitution: 2–8 For storage of reconstituted Cali	3°C for 1 week	1000 μL han 1 week, store a	Lyophilized Add 1000 µL redistilled water per vial. at -20°C.
Calibrator 0 Color coded yellow	1 vial	1000 μL	Ready for Use
Controls (H), (L) Antigen concentration indicated Storage after reconstitution: 2–8 For storage of reconstituted Constore at -20°C.	3°C for 1 week	1000 μL n 1 week,	Lyophilized Add 1000 µL redistilled water per vial.
Enzyme Conjugate 11X Peroxidase conjugated mouse m	1 vial ionoclonal anti-ap	1.2 mL oB	Preparation, see below
Enzyme Conjugate Buffer Color coded blue	1 vial	12 mL	Ready for use
Assay Buffer Color coded red	1 vial	12 mL	Ready for use
Sample Buffer 4X Color coded yellow Note! Precipitate may occur wh Allow Sample Buffer 4X to read Mix until precipitate has dissolv Storage after dilution: 2-8 °C fo	n room temperatui ed		Dilute with 150 mL redistilled water to make sample buffer 1X solution.
Wash Buffer 21X Storage after dilution: 2-8°C for 2 months	1 bottle	50 mL	Dilute with 1000 mL redistilled water to make wash buffer 1X solution
Substrate TMB Colorless solution Note! Light sensitive!	1 bottle	22 mL	Ready for Use
Stop Solution 0.5 M H ₂ SO ₄	1 vial	7 mL	Ready for Use

Preparation of enzyme conjugate 1X solution

Prepare the needed volume of enzyme conjugate 1X solution by dilution of Enzyme Conjugate 11X (1+10) in Enzyme Conjugate Buffer according to the table below. When preparing enzyme conjugate 1X solution for the whole plate, pour all of the Enzyme Conjugate Buffer into the Enzyme Conjugate 11X vial. Mix gently.

Number of strips	Enzyme Conjugate 11X	Enzyme Conjugate Buffer
12 strips	1 vial	1 vial
8 strips	700 μL	7 mL
4 strips	350 μL	3.5 mL

Storage after dilution: 2-8°C for 1 month.

SPECIMEN COLLECTION AND HANDLING

The recommended use of specimen in the Mercodia Oxidized LDL ELISA is fresh EDTA-plasma. Heparin-plasma and serum may also be used.

Plasma

Collect blood by venipuncture in tubes containing EDTA or heparin as anticoagulant, and separate the plasma fraction. Samples can be stored at -80° C for at least six months. Avoid repeated freezing and thawing.

Serum

Collect blood by venipuncture, allow to clot, and separate the serum by centrifugation. Samples can be stored at -80°C for at least six months. Avoid repeated freezing and thawing.

DILUTION OF SAMPLES

Prepare two tubes for each patient sample. Each sample has to be diluted in two steps to a final dilution of 1/6561 as follows:

1	Patient samples Sample buffer 1X solution Cap tubes, invert three times and vortex-mix*	25 μL 2000 μL	Dilution 1/81
2	1/81 dilution of sample Sample buffer1X solution Cap tubes, invert three times and vortex-mix*	25 μL 2000 μL	Dilution 1/6561

^{*} It is IMPORTANT to ensure that each dilution step is properly mixed before the next step. The assay should be started directly after the dilution of samples. Diluted samples should not be stored

As a result of this procedure the samples will be diluted 1/6561.

TEST PROCEDURE

All reagents and samples must be brought to room temperature before use. Prepare a standard curve for each assay run.

- Prepare enzyme conjugate 1X solution, sample buffer 1X solution, wash buffer 1X solution and samples.
- Prepare sufficient Coated Plate wells to accommodate Calibrators, Controls and samples in duplicate.
- 3. Pipette 25 µL of each Calibrator, Control and diluted sample into appropriate wells.
- 4. Add 100 µL Assay Buffer to each well.
- 5. Incubate on a plate shaker (700-900 rpm) for 2 hours at room temperature (18-25°C).
- 6. Wash 6 times with 700 µL wash buffer 1X solution per well using an automatic plate washer with overflow-wash function. After final wash, invert and tap the plate firmly against absorbent paper. Do not include soak step in washing procedure.

Or manually:
Discard the reaction volume by inverting the microplate over a sink. Add 350 µL wash buffer
1X solution to each well. Discard the wash solution, tap firmly several times against absorbent paper to remove excess liquid. Repeat 5 times. <u>Avoid prolonged soaking during</u>
washing procedure.

- 7. Add 100 µL enzyme conjugate 1X solution to each well.
- 8. Incubate on a plate shaker (700-900 rpm) for 1 hour at room temperature (18–25°C).
- 9. Wash as described in 6.
- Add 200 uL Substrate TMB.
- 11. Incubate on the bench for 15 minutes at room temperature, no shaking.
- 12. Add 50 µL Stop Solution. Place plate on the shaker for 5 seconds to ensure mixing.
- 13. Read optical density at 450 nm and calculate results.

 Read within 30 minutes

Note! To prevent contamination between the conjugate and substrate, separate pipettes are recommended.

INTERNAL QUALITY CONTROL

Commercial controls and/or internal plasma/serum pools with low, intermediate and high oxidized LDL concentrations should routinely be assayed as samples, and results charted from day to day. It is good laboratory practice to record the following data for each assay: kit lot number, preparation dates of kit components OD values for the blank, Calibrators and Controls.

Laboratories should follow government regulations or accreditation requirements for quality control frequency.

CALCULATION OF RESULTS

Computerized calculation

The concentration of oxidized LDL is obtained by computerized data reduction of the absorbance for the Calibrators, except for Calibrator O, versus the concentration using cubic spline regression. Multiply the concentration of the samples with the dilution factor (e.g. × 6561).

Manual calculation

- 1. Plot the absorbance values obtained for the Calibrators, except Calibrator 0, against the Oxidized LDL concentration on a log-log paper and construct a calibrator curve.
- 2. Read the concentration of the Controls and unknown samples from the calibrator curve.
- 3. Multiply the concentration of the Controls and the samples with the dilution factor (e.g. \times 6561).

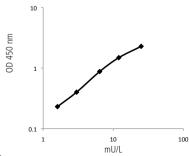
Example of results

Wells	Identity	A ₄₅₀ nm	Conc. mU/L	U/L**	
1A-B	Calibrator 0	0.072			
1C-D	Calibrator 1*	0.185			
1E-F	Calibrator 2*	0.369			
1G-H	Calibrator 3*	0.664			
2A-B	Calibrator 4*	1.405			
2C-D	Calibrator 5*	2.469			
2E-F	Control (H)	1.234	12.2	80.04	
2G-H	Control (L)	0.513	5.2	34.12	

^{*}Concentration stated on vial label.

Example of calibrator curve

A typical calibrator curve is shown here. Do not use this curve to determine actual assay results.



^{**}Result multiplied by dilution factor (\times 6561).

LIMITATIONS OF THE PROCEDURE

As with all diagnostic tests, a definitive diagnosis should not be based on the results of a single test, but should be made by the physician after all clinical findings have been evaluated.

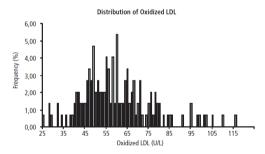
Grossly lipemic, icteric or hemolyzed samples do not interfere in the assay.

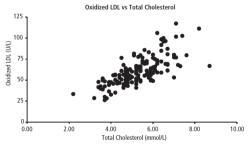
Separate pipettes should be used when pipetting the conjugate and the substrate.

EXPECTED VALUES

Good practice dictates that each laboratory establishes its own expected range of values. The following results may serve as a guide until the laboratory has gathered sufficient data of its own.

The following results were obtained from 149 ambulatory, randomly selected individuals in the Stockholm area, Sweden.





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	Mean	Median	Range
Range OxLDL (U/L)*	61	59	26–117
Chol/HDL ratio**	4.10	3.90	1.68–7.89

^{*} Arbitrary units. See CALIBRATION.

Distribution of Oxidized LDL and Cholesterol/HDL ratio.

Oxidized LDL U/L	Cholesterol/HDL Ratio	Patient/Total (otal (%)
		Quartile 1		
Q1(26-49)	1.68-3.13	-	22/149	(14.8)
Q2 (50-59)	1.68-3.13		10/149	(6.7)
Q3(60-69)	1.68-3.13		5/149	(3.4)
Q4(70-117)	1.68-3.13		0/149	(0.0)
		Quartile 2		
Q1(26-49)	3.21-3.86		7/149	(4.7)
Q2(50-59)	3.21-3.86		17/149	(11.4)
Q3(60-69)	3.21-3.86		10/149	(6.7)
Q4 (70-117)	3.21-3.86		3/149	(2.0)
		Quartile 3		
Q1(26-49)	3.87-4.79		7/149	(4.7)
Q2(50-59)	3.87-4.79		11/149	(7.4)
Q3(60-69)	3.87-4.79		11/149	(7.4)
Q4 (70-117)	3.87-4.79		9/149	(6.0)
		Quartile 4		
Q1(26-49)	4.80-7.89		1/149	(0.7)
Q2(50-59)	4.80-7.89		4/149	(2.7)
Q3(60-69)	4.80-7.89		7/149	(4.7)
Q4 (70-117)	4.80-7.89		25/149	(16.8)

^{**}Measured data Cholesterol (mmol/L) and HDL (mmol/L).

The following results were obtained from 147 ambulatory, randomly selected individuals in the Stockholm area. Sweden

	Mean	Median	Range
Range OxLDL (U/L)*	61	59	26–117
LDL/HDL ratio**	2.51	2.36	0.55–5.56

^{*} Arbitrary units. See CALIBRATION.

Distribution of Oxidized LDL and LDL/HDL ratio.

Oxidized LDL U/IL	LDL/HDL Ratio		Patient/To	otal (%)
		Quartile 1		
Q1(26-49)	0.55-1.79	•	19/147	(13.0)
Q2 (50-59)	0.55-1.79		12/147	(8.2)
Q3 (60-69)	0.55-1.79		6/147	(4.1)
Q4 (70-117)	0.55-1.79		0/147	(0.0)
		Quartile 2		
Q1(26-49)	1.79-2.33		10/147	(6.8)
Q2 (50-59)	1.79-2.33		13/147	(8.8)
Q3 (60-69)	1.79-2.33		10/147	(6.8)
Q4 (70–117)	1.79-2.33		3/147	(2.0)
		Quartile 3		
Q1(26-49)	2.36-3.08		8/147	(5.4)
Q2 (50-59)	2.36-3.08		11/147	(7.5)
Q3 (60–69)	2.36-3.08		10/147	(6.8)
Q4 (70–117)	2.36-3.08		8/147	(5.4)
		Quartile 4		
Q1(26-49)	3.09-5.56		0/147	(0.0)
Q2 (50-59)	3.09-5.56		5/147	(3.4)
Q3 (60–69)	3.09-5.56		8/147	(5.4)
Q4 (70–117)	3.09-5.56		24/147	(16.3)

PERFORMANCE CHARACTERISTICS Detection Limit

Detection limit is defined as the Capability of Detection according to ISO11843-Part 1. Capability of Detection should be seen as part of a method validation, rather than the lowest concentration that can be measured. The detection limit is 0.6 mU/L as determined by the methodology described in ISO11843- Part 4.

Concentration of samples with absorbance below Calibrator 1 should not be calculated, instead expressed as less or equal to (s) the concentration indicated on the vial for Calibrator 1.

^{**}Measured data LDL (mmol/L) and HDL (mmol/L).

Recovery

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

Precision

Precision was calculated from 3 samples assayed in 3–8 replicates on 20 different occasions.

Sample	Obtained va	lue	Coefficient of vari	ation %	
	mU/L	within	between	total	
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	

Dilutions

Sample	Dilution	Obtained value mU/L	Obtained/ Expected
		(Assay 1/ Assay 2)	
Sample 1	1:3321		
	1:6642	19.9/18.3	
	1:13284	9.4/9.5	0.94/1.04
Sample 2	1:3321	_	
•	1:6642	20.6/20.4	
	1:13284	10.6/9.8	1.02/0.97
Sample 3	1:3321	29.1/32.0	
	1:6642	15.6/15.5	1.07/0.97
	1:13284	7.7/8.0	1.05/1.00
Sample 4	1:3321	21.6/20.2	
	1:6642	10.4/10.4	0.97/1.03
	1:13284	5.9/5.7	1.08/1.12
Sample 5	1:3321	15.9/15.7	
	1:6642	8.1/8.0	1.02/1.02
	1:13284	4.0/4.4	1.02/1.13

Mean Obtained/Expected value is 1.03, range 0.94–1.13.

Calibration

No international reference is at date available. The Mercodia Oxidized LDL ELISA is calibrated in relative arbitrary units against an in house reference preparation.

WARRANTY

The performance data presented here was obtained using the procedure indicated. Any change or modification in the procedure not recommended by Mercodia AB may affect the results, in which event Mercodia AB disclaims all warranties expressed, implied or statutory, including the implied warranty of merchantability and fitness for use.

Mercodia AB and its authorized distributors, in such event, shall not be liable for damages indirect or consequential.

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Further references can be found on our website: www.mercodia.com

SUMMARY OF PROTOCOL SHEET Mercodia Oxidized LDL ELISA

Add Calibrators, Controls and samples	25 μL
Add Assay Buffer	100 μL
Incubate	2 hour at 18–25°C on a shaker 700-900 rpm
Wash plate with wash buffer 1X solution	6 times
Add enzyme conjugate 1X solution	100 μL
Incubate	1 hour at 18–25°C on a shaker 700-900 rpm
Wash plate with wash buffer 1X solution	6 times
Add Substrate TMB	200 μL
Incubate	15 minutes at 18–25°C
Add Stop Solution	50 μL Shake for 5 sec to ensure mixing
Measure A ₄₅₀	Evaluate results

For full details see page 7