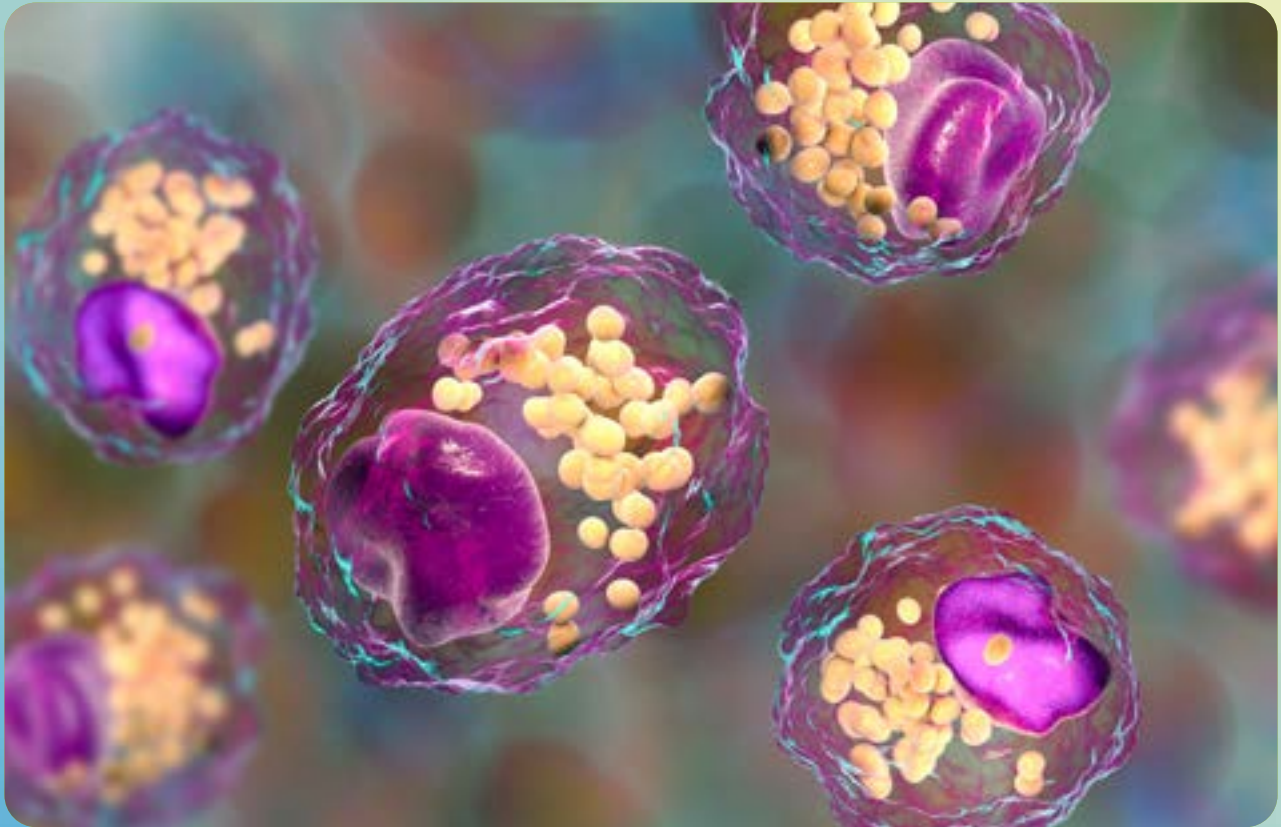


# **IDK<sup>®</sup> Oxidized LDL**



**ELISA for the quantitative determination of oxidized LDL in EDTA plasma, serum, and dried blood spots.**

- ▶ Sample volume: 10  $\mu$ L (serum, plasma) 50  $\mu$ L (dried blood)
- ▶ Incubation time: 2h 10m
- ▶ Standard range: 9 - 250 ng/mL



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# IDK<sup>®</sup> Oxidized LDL

## A Biomarker of Lipid Peroxidation

Lipid peroxidation products, such as oxidized LDL (ox-LDL), are generated when free radicals react with unsaturated fatty acids. Macrophages then engulf and process these modified lipids.

### Advantages of the **IDK<sup>®</sup>** ELISA:

- Recognizes MDA-modified apolipoprotein B 100
- Non-invasive marker of lipid peroxidation
- FDA Class I Exempt Device

The common macrophage receptor for LDL uptake is regulated by a negative feedback loop which prevents cholesterol overload. However, modified LDL (ox-LDL) is not recognized by this receptor. Instead, it is taken up via a second receptor, known as the scavenger receptor, without negative feedback.

Consequently, these LDL-overloaded macrophages transform into cholesterol-enriched foam cells. Foam cell clusters are considered an early sign of arteriosclerosis. The rupture of arteriosclerotic plaques and subsequent thrombus formation can lead to acute arterial occlusion.

The oxLDL ELISA is intended for the quantitative determination of oxLDL in EDTA plasma, serum, and dried blood spots. The test specifically recognizes MDA-modified Apolipoprotein B .

## Kit Specifications

<b>IDK<sup>®</sup></b> Oxidized LDL	
Matrix	Serum, EDTA Plasma, Dried Blood
Sample volume	10 µL (Ser.,PI.) 50 µL (Dried Blood)
Test principle	ELISA
Cat. No.	K7810.US

#### Literature:

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FDA Class I Exempt Device. For In Vitro Diagnostic Use.  
For Lab Professional Use Only.

Immundiagnostik, Inc. is the North American Subsidiary of Immundiagnostik AG.  
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