



DATA SHEET

HIGH OXIDIZED LOW DENSITY LIPOPROTEIN, HUMAN

Catalog No: YB-002-1

Lot No: 2022-10-17

Quantity: 2.0 mg (milligrams) Protein/vial

Concentration: 2.0mg/ml (Protein)

Packaging: High Oxidized LDL is membrane filtered and aseptically packaged in a solution containing phosphate-buffered saline at pH 7.4 with 0.2mM EDTA-Na₂

Preparation: YB Human native LDL (Cat. No. **YB-001**) (which was purified to homogeneity via ultra-centrifugation(1.019-1.063g/cc)) is extensively oxidized with Cu₂SO₄ (oxidant) in PBS at 37°C. Oxidation is terminated by adding excess EDTA-Na₂. Each lot is analyzed on agarose gel electrophoresis for migration versus LDL. This lot of OxLDL migrates 2.5-fold further than the native LDL. This product can produce potent oxidative stress and be used to induce cell apoptosis/death(>20%) and cell injure in some primary cells but with the exception of some cell lines.

TBARS: TBARS is determined colorimetrically by using Malondialdehyde as a standard.

Starting LDL	0.10 ± 0.9	nmoles of MDA/mg Protein
High Ox-LDL	90.0 ± 9.9	nmoles of MDA/mg Protein

Storage & Stability:

This product is stable for only **3** weeks after receipt when handled aseptically and stored at **2-8°C**. **NEVER FREEZE AND PROTECT FROM LIGHT.**

***Special Note:** After prolonged storage, some precipitate may be observed. This is normal for this product. Clarify out the aggregates by spinning in a microfuge for 2 minutes.

Biological Activity:

Sample lots of YB Oxidized LDL are evaluated for receptor binding to peritoneal macrophages in conjunction with our Dil-Ox-LDL and [I-125] Ox-LDL

****Preparations of High Oxidized LDL are fairly unstable; Plan your experiments in advance and use fresh materials.***

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