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# Certificate of Analysis and Data Sheet

## Native Human Low Density Lipoprotein (Oxidized)

**Catalog No.**  
DS-01-0293

**Target Species**  
Human

### Introduction

Low density lipoprotein (LDL) oxidative modification is one of the major processes involved in atherosclerosis along with other degenerative disorders. Oxidized LDL is preferentially accumulated by macrophages which become so called "foam cells" within the atheromatous plaque and contributes to the accumulation of cholesterol, typical of atherosclerosis.

### Preparation

LDL is purified to homogeneity by ultra-centrifugation. Oxidized using 20  $\mu$ M cupric sulfate in PBS at 37°C for 24 hours. Oxidation is terminated with excess EDTA. The level of oxidation is measured using TBARS (Thiobarbituric acid reactive substances) determination using a Malondialdehyde (MDA) standard.

### Formulation

**Product Form:** Purified oxidized LDL from human plasma - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.2mM EDTA

**Approx. Protein Concentration:** Total protein concentration 2.0 mg/ml

### Applications

Functional Assays. Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted.

**The products are furnished for LABORATORY RESEARCH USE ONLY.**  
**Not for diagnostic or therapeutic use.**