

## Certificate of Analysis

**Product Name:** HDL and LDL/VLDL Assay Kit

**Catalog No.:** Z5030057

**Shipping Condition:** Dry ice

**Storage Condition:** Store all reagents at -20°C.

**Shelf Life:** 6 months from the date of receipt under proper storage conditions

### Description

*CHOLESTEROL* concentrations in *High-Density Lipoprotein* (HDL) and *Low-Density (LDL)/Very-Low-Density (VLDL) Lipoproteins* are strong predictors for coronary heart disease. Functional HDL offers protection by removing cholesterol from cells and atheroma. Higher concentrations of LDL and lower concentrations of functional HDL are strongly associated with cardiovascular disease due to higher risk of atherosclerosis. The balances between high- and low-density lipoproteins are solely genetically determined, but can be changed by medications, food choices and other factors.

Simple, direct and automation-ready procedures for measuring HDL and LDL/VLDL concentrations are very desirable. BioChain's HDL and LDL/VLDL quantification kit is based on our improved PEG precipitation method in which HDL and LDL/VLDL are separated, and cholesterol concentrations are determined using cholesterol esterase/cholesterol dehydrogenase reagent. In this reaction, NAD is reduced to NADH. The optical density of the formed NADH at 340 nm is directly proportionate to the cholesterol concentration in the sample.

### Components

1. One Kit
2. User Manual
3. Certificate of Analysis
4. SDS

**FOR IN VITRO RESEARCH USE ONLY**

**APPROVED BY:** \_\_\_\_\_

