

CATALOG# 79970

# RAT HDL-CHOLESTEROL ASSAY KIT

## Catalog number

Rat HDL-Cholesterol Assay Kit.....79970

## Intended use

A high quality enzymatic assay for the quantification of rat HDL-cholesterol in serum and plasma.

## Test principle

Crystal Chem's Rat HDL-Cholesterol assay is based on a modified polyvinyl sulfonic acid (PVS) and polyethylene-glycol methyl ether (PEGME) coupled classic precipitation method with the improvements in using optimized quantities of PVS/PEGME and selected detergents. LDL, VLDL, and chylomicron (CM) react with PVS and PEGME and the reaction results in inaccessibility of LDL, VLDL and CM by cholesterol oxidase (CHOD) and cholesterol esterase (CHER), whereas HDL reacts with the enzymes. The HDL reacts with the enzymes to produce H<sub>2</sub>O<sub>2</sub> which is quantified by the Trinder reaction.

## Specifications

<b>Sample Types</b>	Serum, Plasma
<b>Assay Time</b>	10 minutes
<b>Range</b>	1.5 - 180 mg/dL
<b>Sample Size</b>	3 µL
<b>Precision</b>	CV < 10 %
<b>Sensitivity</b>	1.1 mg/dL

## Optional Control

Control for Rat HDL- Cholesterol Assay Kit.....Cat# 79973

## Highlights

- ✓ Kits use only 3 µL sample
- ✓ Fast assay time ( 10 minutes)
- ✓ Accurate and easy-to-use
- ✓ Optimized for rat samples

## Summary of protocol

Add 3 µL of sample



Add 225 µL of PVS/PEGME detergent



Incubate for 5 minutes at 37 °C



Add 75 µL enzyme solution



Incubate for 5 minutes at 37 °C



Measure OD at 600 nm

