

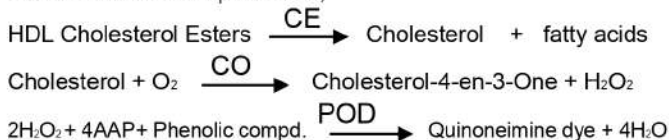
Reagent for quantitative estimation of HDL-Cholesterol in Serum or Plasma.

DIAGNOSTIC SIGNIFICANCE:

High-Density Lipoproteins (HDL) are one of the major classes of plasma lipoproteins. They are composed of a number of heterogeneous particles, including cholesterol and vary with respect to size and content of lipid and apolipoprotein. HDL serves to remove cholesterol from the peripheral cells of the liver, where the cholesterol is converted to bile acids and excreted into the intestine. An inverse relationship between HDL – Cholesterol (HDL-C) levels in serum and the incidence/prevalence of Coronary Heart Disease (CHD) has been demonstrated in a number of epidemiological studies. The importance of HDL-C as a risk factor for CHD is now recognized. An accurate measurement of HDL-C is of vital importance when assessing patient risk from CHD.

PRINCIPLE:

Specific and special detergent react with HDL-C fractions, followed by enzymatic reactions with CE, CO, POD and with Chromogenic coupler leading to form color, simultaneously non HDL-C Lipoproteins (CM, VLDL & LDL) form colorless water-soluble compound with other group of specific detergents. The HDL-C fraction reaction as per below;



SPECIMEN COLLECTION:

On empty stomach Serum and heparinized plasma are acceptable. EDTA plasma is acceptable, but causes decreased results. Do not freeze the samples. If any sample show precipitation, centrifuge before using.

KIT PRESENTATION:

Pack Size	1 X 20 ml	2 X 20 ml	2 X 40 ml
D-HDL C Reagent	1 X 20 ml	2 X 20 ml	2 X 40 ml
D-HDL- C Calibrator	1 No.	1 No.	1 No.

PREPARATION OF WORKING REAGENT:

D-HDL Cholesterol Reagent **Ready To Use.**

HDL CALIBRATOR PREPARATION & STABILITY:

For reconstitution refer the Calibrator vial label. After reconstitution Calibrator stable for 7 days at 2-8°C.

REAGENT STORAGE & STABILITY:

All Reagents included in the kit are stable at 2-8°C until the expiry date stated on the label.

NOTE:

A special surfactant, Lipid Clearing Factor (L.C.F.) is added to the Reagent to solubilise the lipemic sera (causing turbidity or opalescence) which adds to the accuracy of results.

ASSAY PARAMETERS:

Reaction : End point	Sample Volume : 10 µl
Wavelength 1 : 620 nm	Reagent Volume : 1000 µl
Wavelength 2 : 700 nm (Optional)	Calibrator Conc. : As on vial
Zero Setting : Reagent Blank	Linearity : 250 mg/dl
Incubation : 5 minutes at 37 °C	Unit : mg/dl

PROCEDURE:

Pipette into TT	Blank	Calibrator	Test
D-HDL C Reagent	1000 µl	1000 µl	1000 µl
HDL-C Calibrator	--	10 µl	--
Sample (Test)	--	--	10 µl

Mix & Incubation for 5 minutes at 37 °C. Read Abs of Test (T) and Calibrator(C) against Reagent Blank at 620 nm.

CALCULATION:

Male: 35 - 80 mg/dl	Female: 42 - 88 mg/dl
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HDL-C (mg/dl) = Abs T ÷ Abs C X Conc. of Calibrator

NORMAL VALUES:

Each laboratory should establish its own reference range

LINEARITY:

This procedure is linear up to 250 mg/dl.

REFERENCES:

- National Institute of Health Consensus Development Conference Statement: Triglycerides, High Density Lipoprotein, and Coronary Heart Disease. Washington D.C. Feb 26-28, 1992.
- Second Report of the Expert Panel on Detection, Evaluation, and Treatment of high Blood Cholesterol in Adults (Adult Treatment Panel II). NH Publication No. 93-3096, September 1993.

IFU No.: 027/00 Rev. No.: 00/120723



Expiry Date



In-Vitro Diagnostics Use



Storage



Mfg. Date



Batch Number



Catalogue Number



See Package Insert