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Specification

Product: **HDL-Cholesterol Gen.4
(HDLC4)**

Catalog No. 07528582190
07528582214

Intended use:

In vitro diagnostic test for the quantitative determination of the HDL-cholesterol concentration in human serum and plasma on Roche/Hitachi cobas c systems.

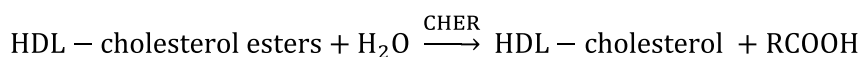
Test principle:

Homogeneous enzymatic colorimetric test.

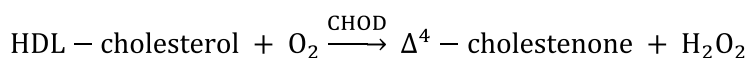
Non-HDL lipoproteins such as LDL, VLDL and chylomicrons are combined with polyanion and a detergent forming a water soluble complex. In this complex the enzymatic reaction of CHER and CHOD towards non-HDL lipoproteins is blocked.

Finally only HDL-particles can react with CHER and CHOD. The cholesterol concentration of HDL-cholesterol is determined enzymatically by CHER and CHOD.

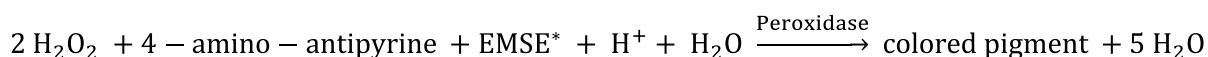
Cholesterol esters are broken down quantitatively into free cholesterol and fatty acids by CHER.



In the presence of oxygen, cholesterol is oxidized by cholesterol oxidase to Δ^4 -cholestenone and hydrogen peroxide.



In the presence of peroxidase, the hydrogen peroxide generated reacts with 4-amino-antipyrine and EMSE to form a dye. The color intensity of this dye is directly proportional to the cholesterol concentration and is measured photometrically.



*EMSE = N-ethyl-N-(3-methylphenyl)-N'-succinylethylenediamine

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1. Reagents-working solutions:

1.1 TAPSO*¹ buffer/polyanion/enzyme solution (B):

1.1.1 pH-value: 7.70 - 7.85

1.2 Bis-Tris*² buffer/Enzyme/4-aminoantipyrine solution (C):

1.2.1 pH-value: 6.60 - 6.80

2. Performance test:

2.1 Recovery on Roche/Hitachi cobas c 701/702 analyzer(s):

PreciControl ClinChem Multi 1 (Catalog No. 05947626190) 90 - 110 %

PreciControl ClinChem Multi 2 (Catalog No. 05947774190) 90 - 110 %

Also required:

Calibrator f.a.s. Lipids (Catalog No. 12172623122)

*¹ TAPSO = 2-Hydroxy-N-tris(hydroxymethyl)methyl-3aminopropanesulfonic acid

*² Bis-Tris = Bis(2-hydroxyethyl)iminotris(hydroxymethyl)methane