

Store at: +2+8°C.

Presentation:

Cod. SU014LQ CONT: R1 1 x 30 mL.. + R2 1 x 10 mL. + Cal.

Procedure**Quantitative determination of HDL Cholesterol.****Only for in vitro use in clinical laboratory (IVD)****TEST SUMMARY**

Directly determination of serum HDLc (high-density lipoprotein cholesterol) levels without the need for any pre-treatment or centrifugation of the sample.

The method depends on the properties of a detergent which solubilizes only the HDL so that the HDL-c is released to react with the cholesterol esterase, cholesterol oxidase and chromogens to give colour. The non HDL lipoproteins LDL, VLDL and chylomicrons are inhibited from reacting with the enzymes due to absorption of the detergents on their surfaces. The intensity of the color formed is proportional to the HDLc concentration in the sample.

**REAGENTS COMPOSITION**

R.1	GOOD pH 7.0 Cholesterol oxidase Peroxidase DSBmT	< 1000 U/L <1300 U/L < 1 mM
R.2	GOOD pH 7.0 Cholesterol esterase 4 – Aminoantipyrine (4-AP) Detergent Ascorbic oxidase	< 1500 U/L < 1 mM < 2% < 3000 U/L
HDLc Cal/ LDLC Cal	Lyophilized human serum.	

**PRECAUTIONS****HDLc/ LDLC CAL**

Components from human origin have been tested and found to be negative for the presence of HBsAg, HCV, and antibody to HIV (1/2). However handle cautiously as potentially infectious.

**REAGENT PREPARATION AND STABILITY**

R 1 and R 2: Are ready to use.

**HDLc/ LDLC CAL:** Dissolve the contents with 1 mL of distilled water. Cap vial and mix gently to dissolve contents.

All the components of the kit are stable until the expiration date on the label when stored at 2-8°C, protected from light and contamination prevented during their use. Do not freeze the reagents.

Do not use reagents over the expiration date.

**R 1 and R 2:** Once opened is stable 8 weeks at 2-8°C.

**HDLc/ LDLC CAL:** Once reconstitute 1 week at 2-8°C or 5 weeks at -20°C.

Do not use reagents over the expiration date.

**Signs of reagent deterioration:**

- Presence of particles and turbidity.

*All the reagents of the kit are stable up to the end of the indicated month and year of expiry. Store tightly closed at 2-8°C. Do not use reagents over the expiration date.*

**SPECIMEN**

Serum or heparinized plasma, free of hemolysis<sup>1</sup>: Anticoagulants containing citrate should not be use.

Removed from the blood clot as soon as possible

Stability of the sample: 7 days at 2-8°C.

**MATERIAL REQUIRED BUT NOT PROVIDED**

- Spectrophotometer or colorimeter measuring at 600 nm.

*General laboratory equipment.*

**TEST PROCEDURE**

## 1. Assay Conditions

- Wavelength : ..... 600 - 700 nm.
  - Cuvette: ..... 1 cm light path.
  - Temperature ..... 37°C.
2. Adjust the instrument to zero with distilled water.
3. Pipette into a cuvette:

	Blank	Standard	Sample
R 1 (µL)	300	300	300
Calibrator (µL)	--	3	--
Sample (µL)	--	--	3

## 4. Mix and incubate for 5 min at 37°C.

5. Read the absorbance (A<sub>1</sub>) of the samples and calibrator.

## 6. Add:

	Blank	Calibrator	Sample
R 2 (µL)	100	100	100