

Metabolead RemL-C Outlines

Enzymatic Method

Metabolead RemL-C test kit is for the quantitative measurement of remnant lipoprotein cholesterol in human serum.

Summary

The hydrolyzed products of Chylomicron (CM) and Very Low Density Lipoprotein (VLDL) are collectively called as remnant lipoprotein (RLP). RLP, one of the lipoproteins that develop arteriosclerosis, is a risk factor of coronary artery disease. Measurement of RemL-C is a useful method to evaluate the status of RLP.

Characteristics

1. Direct method with surfactant and enzyme
2. Ready to use
3. No pretreatment and high reproducibility
4. Applied to automated clinical chemistry analyzers

Intended for Use

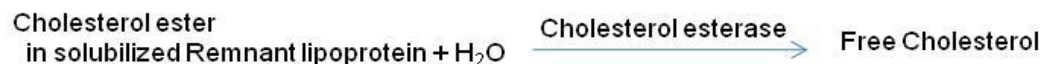
For the *in vitro* quantitative measurement of remnant lipoprotein cholesterol in human serum.

Principle

Phospholipase-D and a unique surfactant selectively solubilize remnant lipoproteins. Cholesterol esters derived from remnant lipoproteins are hydrolyzed by cholesterol esterase to form free cholesterol. The free cholesterol is oxidized by cholesterol oxidase to produce hydrogen peroxide and cholestenone. The hydrogen peroxide reacts with 4-AA and EMSE in the presence of peroxidase to yield quinoneimine chromogen. The concentration of remnant lipoprotein cholesterol is determined by absorbance.



(*): The Detergent blocks the solubilization of the other lipoproteins



EMSE: N-Ethyl-N-(3-methylphenyl)-N'-succinylethylenediamine
4AA: 4-aminoantipyrine

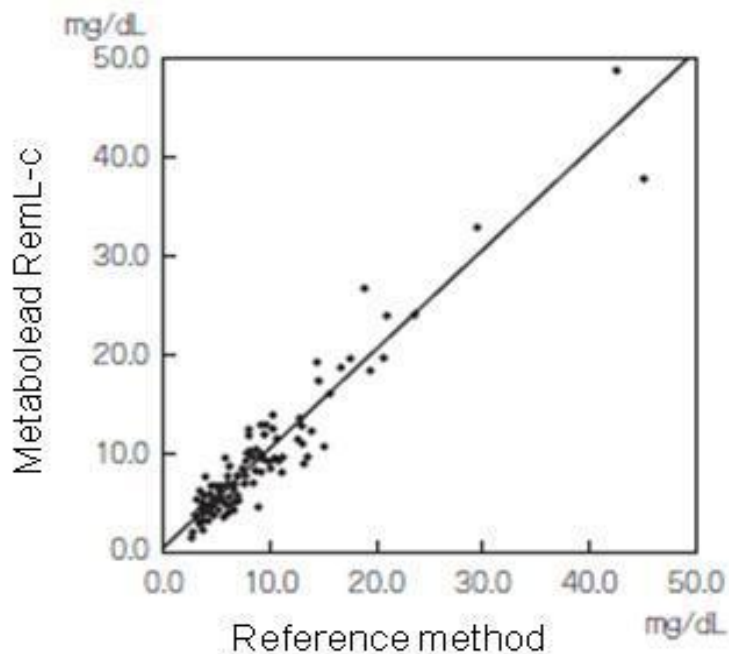
● Materials required but not supplied

1. Calibrator (Standard serum)
Calibrator for Metabolead RemL-C is available from Kyowa Medex (Metabolead Standard Serum RemL-C)
2. Controls (Control L, Control H), as required
Control for Metabolead RemL-C is available from Kyowa Medex (Metabolead Control RemL-C)
3. Automated clinical chemistry analyzers capable of measuring at 600 nm

● Correlation

The correlation between this method and Reference Method is as follows.
(X = Reference A Method; Y = Metabolead RemL-C)

Correlation: $Y = 1.004x + 0.271$, $r = 0.955$ (n = 133)



● Storage and Shelf Life

1. Storage: Store in a dark and cool place (2-8°C)
2. Shelf life: 12 months