

## Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit | LDL-C assay kit

Micro Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit

CATALOG #  
**AAA332609**

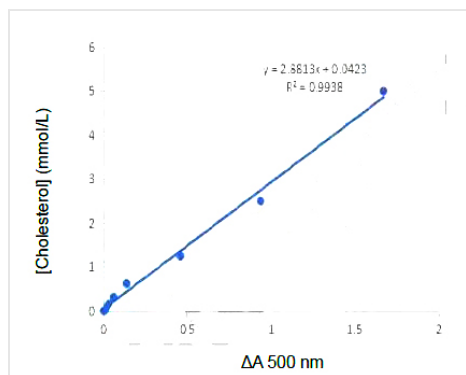
### PRODUCT SYNONYMS

Low Density Lipoprotein Cholesterol (LDL-C); Micro Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit; LDL-C assay kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Samples                 | Serum                                                                                                                                                                                                     |
| Detection Range         | 0.078-5 mmol/L                                                                                                                                                                                            |
| Sensitivity             | 0.039 mmol/L                                                                                                                                                                                              |
| Notes                   | Micro Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit provides a convenient tool for sensitive detection of the Density Lipoprotein Cholesterol (LDL-C).                                            |
| Preparation and Storage | Store at -20 degree C and keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components. |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for LDL-C assay kit

Principle of the Assay: Low Density Lipoprotein Cholesterol (LDL-C) as one of the serum proteins, mainly synthesized by the liver. It's a lipoprotein particle that carries cholesterol into peripheral tissue cells. LDL can enter the cells of the artery wall and carry cholesterol into it. It can also be oxidized to oxidized LDL. When LDL, especially oxidized LDL (ox-LDL), is in excess, the cholesterol it carries can build up in the walls of arteries, causing atherosclerosis over time. Therefore, LDL is called the "bad cholesterol". Low density lipoprotein is positively correlated with the occurrence of coronary heart disease (CHD) and atherosclerotic damage, which is an important index for lipid disease classification and risk prediction. CheKine™ Micro Low Density Lipoprotein Cholesterol (LDL-C) Assay Kit provides a convenient tool for detection of LDL-C. The principle is that LDL-C in serum was separated with precipitant, and cholesterol esterase was used to catalyze the hydrolysis of cholesterol ester into free cholesterol (FC) and free fatty acid (FFA), so as to convert cholesterol ester into FC. Furthermore, cholesterol oxidase catalyzed FC oxidation to produce  $\Delta^4$ -cholestenone and  $H_2O_2$ . Then peroxidase catalyzes the oxidation of 4-amino-antipyrine and phenol with  $H_2O_2$  to produce red quinone compounds has a characteristic absorption peak at 500 nm.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/low-density-lipoprotein-cholesterol-ldl-c/332609>