

Low-density lipoprotein cholesterol(LDL) Assay Kit | LDL assay kit

Low-density lipoprotein cholesterol(LDL) assay kit (Microplate Reader and Biochemical Analyzer)

CATALOG #
AAA172734

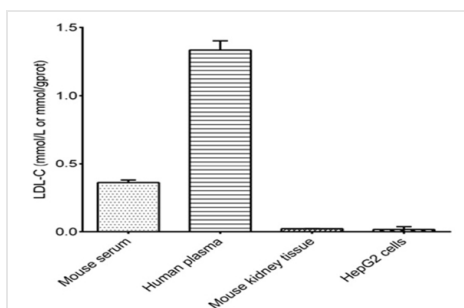
PRODUCT SYNONYMS

Low-density lipoprotein cholesterol(LDL); Low-density lipoprotein cholesterol(LDL) assay kit (Microplate Reader and Biochemical Analyzer); LDL assay kit

PRODUCT SPECIFICATIONS

Specificity	96T (92 samples)
Samples	Serum, plasma, cells, culture supernatant and tissue samples
Detection Range	0.04-12 mmol/L
Sensitivity	0.04 mmol/L
Intra-assay Precision	Three human serum samples were assayed in replicates of 20 to determine precision within an assay (CV = Coefficient of Variation).
Inter-assay Precision	Three human serum samples were assayed 20 times in duplicate by three operators to determine precision between assays.
Preparation and Storage	Store at 2-8 degree C. Valid for 12 months

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LDL assay kit

Principle of the Assay: Lipoproteins (except LDL) such as HDL, CM, and VLDL change structure and dissociate under the action of surfactants. The released micronized cholesterol molecules react with cholesterol enzyme reagents, and the generated hydrogen peroxide is trapped in the absence of coupling agent. It is consumed without color development. At this time, the LDL particles are still intact, and then the reagent containing coupling agent is added, which can dissociate the LDL particles to release cholesterol, which is catalyzed by cholesterol esterase (CE) and cholesterol oxidase (CO) and produce hydrogen peroxide. Hydrogen peroxide is catalyzed by oxidase (POD) in the presence of 4-aminoantipyrine (4-AA) and phenol (T-OOS) to form a red quinone compound. The coloured substance have a maximum absorption peak at 546 nm. Measure the OD value at 546 nm and the LDL-C content in the sample can be calculated.

Intended Uses: This kit can be used for detection of low-density lipoprotein cholesterol (LDL-C) content in serum, plasma, cells, culture supernatant and tissue samples.

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/172734>