

HDL Purification Kit

HDL Purification Kit (Ultracentrifugation Free)

CATALOG #
AAA11420

PRODUCT SYNONYMS

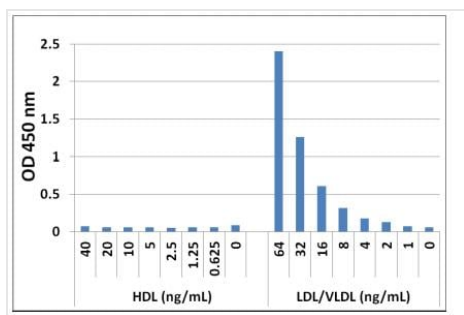
HDL; HDL Purification Kit (Ultracentrifugation Free); HDL purification kit

PRODUCT SPECIFICATIONS

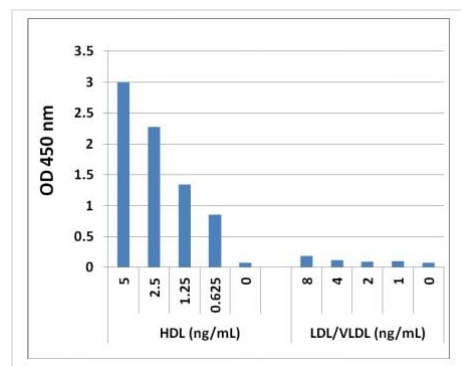
Preparation and Storage

Upon receipt store Dextran Removal Solution at room temperature. Store all other components at 4 degree C.

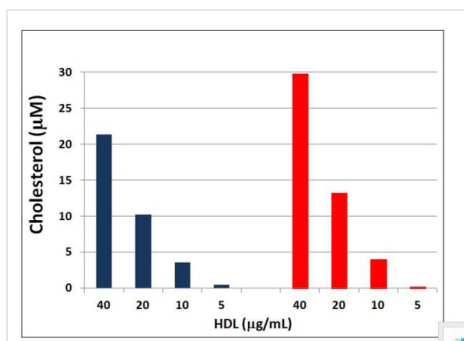
IMAGES



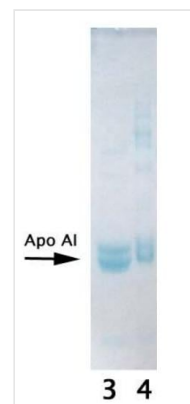
Application Data



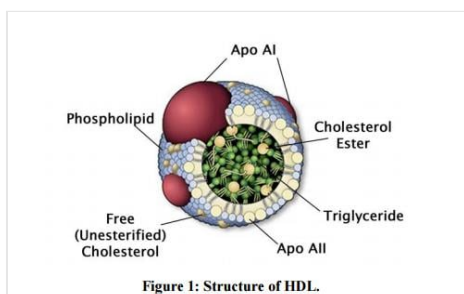
Application Data



Application Data



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for HDL purification kit	Background/Introduction: Lipoproteins are submicroscopic particles composed of lipid and protein held together by noncovalent forces. Their general structure is that of a putative spheroidal microemulsion formed from an outer layer of phospholipids, unesterified cholesterol, and proteins, with a core of neutral lipids, predominately cholesteryl esters and triacylglycerols (TAG). Very low density lipoprotein (VLDL), a spherical particle with a diameter of 30-100 nm, is the major plasma vehicle for TAG and is the precursor to Low density lipoprotein (LDL). Each VLDL contains one molecule of a hydrophobic protein known as apolipoprotein B-100 (Apo B), as well as multiple copies of apolipoprotein E and apolipoprotein C. High Density Lipoprotein (HDL) is also a spherical particle with diameter of about 10 nm (Figure 1). HDL contains the Apolipoprotein AI and AII molecules. HDL and LDL cholesterol levels in the blood are important indicators of many disease states. High blood levels of LDLs are associated with health problems and cardiovascular disease. For this reason, LDL is often referred to as the "bad cholesterol." LDL particles that accumulate within arteries can form plaques over time, which can increase chances of a stroke, heart attack, or vascular disease. HDL particles are able to remove cholesterol from within arteries and transport it back to the liver for re-utilization or excretion, which is the main reason why the cholesterol carried within HDL particles is sometimes called "good cholesterol." Monitoring circulatory levels of different lipoproteins is critical to the identification of lipid transport disorders such as atherosclerosis. The HDL Purification Kit uses Dextran Sulfate to selectively precipitate HDL. The kit allows for the purification of HDL without the need for ultracentrifugation. The lipoprotein particles are highly purified through a series of precipitation and low speed centrifugation steps. Each kit provides sufficient reagents to perform up to 10 preps, and each preparation can purify up to 10 mL of serum or plasma samples with a yield of ~4500 µg of HDL per mL for human samples (expected yield will vary by species).
Product Categories/Family for HDL purification kit	Metabolism Research ; Lipoprotein Metabolism ; Lipoprotein Purification Kits
References	1. Atmeh R. F. (1990) J Lipid Res, 31: 1771-1780. 2. Havel R.J., Eder H.A., and Bragdon J.H. (1955) J. Clin. Invest, 34: 1345-1353. 3. Gaubatz J.W., Chari M.V., Nava M.L., Guyton J.R., and Morrisett J.D. (1987) J Lipid Res, 28: 69-79. 4. Kostner G.M., Ibovnik A., Holzer H., and Gillhofer H. (1999) J Lipid Res. 40: 2255-2263. 5. Hirowatari Y., Yoshida H., Kurosawa H., Shimura Y., Yanai H., and Tada N. (2010) J Lipid Res. 51: 1237-1243. 6. Lasser N.L., Roheim P.S., Edelstein D., and Eder H.A. (1973) J Lipid Res. 14: 1-8. 7. Camus M-C., Chapman M.J., Forgez P., and Laplaud P.M. (1983) J Lipid Res. 24: 1210-1228.

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://www.aaabiotech.com/purification-kits/hdl/11420>