

Human High Density Lipoproteins

Cat. No. HDL-1538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human high density lipoproteins (HDL) is isolated from fresh human serum, filtered and packaged aseptically.	
Species	Human	
Source	Human Serum	
Description	HDL is often contrasted with low-density or LDL cholesterol or LDL-C. HDL particles are able to remove cholesterol from within artery atheroma[citation needed] and transport it back to the liver for excretion or re-utilization. Those with higher levels of HDL-C seem to have fewer problems with cardiovascular diseases, while those with low HDL-C cholesterol levels (less than 40 mg/dL or about 1 mmol/L) have increased rates for heart disease. While higher HDL levels are correlated with cardiovascular health, no incremental increase in HDL has been proven to improve health.	
Additional Tests	HDL Cholesterol: 1100 mg/dl; Total Cholesterol: 1232 mg/dl; Triglycerides: 414 mg/dl; pH: 7.4; Protein: 2.9 g/ml; Potassium: 5.1 meq/l; Sodium: 148 meq/l; Calcium 6.5 mg/dl; Chloride: 130 meq/l; Phosphorus: 3.6 mg/dl	
Storage	Store at -40°C to -70°C. For short term storage, store at -20°C. for up to three months. To thaw product, place in a 37°C water bath.	
BACKGROUND	Introduction	HDL is the smallest of the lipoprotein particles. They are the densest because they contain the highest proportion of protein to cholesterol. Their most abundant apolipoproteins are apo A-I and apo A-II. The liver synthesizes these lipoproteins as co

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mplexes of apolipoproteins and phospholipid, which resemble cholesterol-free flattened spherical lipoprotein particles. They are capable of picking up cholesterol, carried internally, from cells by interaction with the ATP-binding cassette transporter A1 (ABCA1).

keywords

high density lipoproteins, HDL

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