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# TECHNICALLY *Speaking*

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## Human Low-Density Lipoprotein (LDL)

CLPRO562  
CLPRO562-2  
CLPRO562-3  
Lot:

**Introduction:** LDL is a low-density lipoprotein that transports cholesterol and triglycerides from the liver to peripheral tissues. LDL (like all lipoproteins) facilitates the movement of fats and cholesterol within the water based solution of the blood stream. Each natural LDL particle contains a single Apo B-100 molecule (apolipoprotein B-100 is a protein with 4536 amino acid residues) that circulates the fatty acids and keeps them soluble in the aqueous environment. Additionally, the LDL core is highly-hydrophobic, consisting of linoleate (a polyunsaturated fatty acid) and about 1500 esterified cholesterol molecules. This core is enclosed by a shell of phospholipids and unesterified cholesterol in addition to a single copy of B-100 large protein (514 kDa). Even though the LDL particles are approximately 22 nm in diameter and have a mass of about 3 million Daltons, they have a mass and size distribution since the LDL particles contain a varying number of fatty acids. LDL receptors are synthesized and placed in the plasma membrane when a cell requires cholesterol. The LDL receptors scatter freely until they link to clathrin-coated pits. LDL particles in the blood stream attach to these extracellular LDL receptors. The clathrin-coated pits at that time form vesicles that are endocytosed into the cell. Once the clathrin coat is dropped, the vesicles transport the LDL and their receptors to early endosomes, onto late endosomes to lysosomes. At this point the cholesterol esters in the LDL are hydrolysed. The LDL receptors are recovered back to the plasma membrane. Since LDLs convey cholesterol to the arteries and can be retained there by arterial proteoglycans initializing the formation of plaques, increased levels are linked to atherosclerosis, and thus heart attack, stroke, and peripheral vascular disease. And so, cholesterol within LDL lipoproteins is habitually called "bad" cholesterol. This is a misconception since the cholesterol transported on LDL is the same as the one transported on other lipoprotein particles, it is in itself not "bad", rather it is how and where the cholesterol is being transported, and in what amounts ultimately, which causes adverse effects. HDL / LDL ratio can give an indication of risk for arteriosclerosis.

**Description:** Human Low Density Lipoprotein (LDL) produced in Human plasma.

**Synonyms:** Low Density Lipoprotein, LDL.

**Source:** Human plasma

**Presentation:** 10 mg (CLPRO562), 100 mg (CLPRO562-2), or 1 g (CLPRO562-3), yellow to orange liquid.

**Stability:** Human LDL although stable at 14°C for 1 week, should be stored desiccated below -15°C. (short-term i.e. < 3 months) and below -70°C for long term.

*Continued...*

For more information or to place an order please contact...

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**Purity:** Cholesterol level > 200mg/l. <1% HDL.

**Human Virus Test:** Starting material donor tested and found negative for HIV I & II antibodies, Hepatitis B surface antigen, and Hepatitis C antibodies.

**Laboratory Reagent For Research Use Only.**

IV 02/09/09