

LIPOPROTEIN, LOW DENSITY (LDL; β-lipoprotein) from Human Plasma

Product No. L 2139

Product Description

HDL, LDL and VLDL are isolated sequentially from plasma by using the modified methods of Rudel, L.L.³ and Burstein, M.⁴ Each lipoprotein is then concentrated and dialyzed extensively against 0.15 M NaCl, 0.01% EDTA, pH 7.4-7.5.

HDL and LDL are then filtered through a 0.2 μ membrane and VLDL is filtered through a 0.45 μ membrane.

Each lipoprotein class has a characteristic electrophoretic mobility and chemical composition. Each class is essentially free from contamination by other lipoproteins as determined by agarose electrophoresis using sudan black B staining for lipid. However, it is common for some serum proteins, foreign to the lipoprotein itself, to be present.

Storage

All lipoproteins should be stored at 2-8 °C. Freezing may cause structural or compositional changes.

ProductInformation

Product Profile

Protein concentration: 5.0-6.5 mg/ml assayed by modified Lowry method using BSA as standard (see vial label for lot specific number.) Buffer: 0.15 M NaCl, 0.01% EDTA, pH 7.4-7.5 Source: Fresh, non-frozen plasma Size: M.W. 3.5×10^6 ; diameter 25.8 nm¹ Chemical composition: 22% protein and 78% lipid²

References

- 1. Margolis, S., J. Lipid Res., **8**, 501 (1967)
- 2. Fellin, R.B., et al., Clin. Chim. Acta, 54, 325 (1974)
- 3. Rudel, L.L., et al., Biochem. J., 139, 89 (1974)
- 4. Burstein, M., et al., Can. J. Biochem., 55, 766 (1977)
- 5. Frederickson, D.S., Circulation, 31, 321 (1965)

3/98

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.