# ProductInformation

**LIPOPROTEIN, HIGH DENSITY**
HDL; α-lipoprotein
**from Human Plasma**

Product No. **L 2014**

## 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 lipoprotein 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 composition changes.

## Product Profile

Protein concentration: 10-13 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. 1.75-5 x $10^5$; diameter 6-12.5 nm[1]
Chemical composition: Approx. 45% lipid and 55% protein[2]

## References


1. Oncley, J.L., *et al.*, J. Phys. Colloid. Chem., **51,** 184 (1947)
2. Barclay, M., Lipoprotein Class Distribution in Normal and Disease State, Wiley-Interscience: New York, New York, p.585 (1972)
3. Rudel, L.L., *et al.,* Biochem. J., **139,** 89 (1974)
4. Burstein, M. and Legmann, P., Monographs on Atherosclerosis, Vol. II, Lipoprotein Precipitation", S. Karger AG, Basel (Switzerland), p. 19 (1982)
5. Frederickson, D.S., and Lees, R.S., Circulation, **31,** 321 (1965)


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