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ProductInformation

Hydroxyalkoxypropyl-Dextran

Product Number **H 6383**
Storage Temperature 2-8 °C

Product Description

Synonym: Lipidex-5000[1]

This product is Lipophilic Sephadex® LH–20–100 (hydroxypropyl beaded dextran) which has been substituted with long chain (C_{13}–C_{18}) alkyl ethers.

The wet particle size and exclusion limit for the gel vary depending on the solvent used for swelling.

Information on the preparation, physical properties, and usage of this product was originally published in 1970.[2] The use of this resin for separating fatty acids and esters,[3] and for fractionation of triglyceride mixtures[4] has been described.

The preparative separation of naturally occurring mixtures of polyprenols such as betulaprenols, ficaprenols, and dolichols has been reported. A water:acetone gradient was used.[1] The resin may be regenerated by washing with five column volumes of acetone.[1]

This product has been used in the isolation of steroids from testicular tissue using 70% methanol.[5] It has also been used in the isolation of lanosterol using chloroform and methanol.[6] More recently, it has been used to help characterize extracts of spinal cord, lung, and bile by chromatography using methanol/ethylene chloride, 4:1 (v/v).[7]

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Storage/Stability

Stability of the resin: No decomposition of the resin was observed during continuous use over a six month period.[1]

References

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3. Beijer, K. and Nystrom E., Reversed-phase chromatography of fatty acids on hydrophobic Sephadex. Anal. Biochem., **48(1)**, 1–8 (1972).
4. Lindqvist, B., et al., Preparative fractionation of triglyceride mixtures according to acyl carbon number, using hydroxyalkoxypropyl Sephadex. J. Lipid Res., **15(1)**, 65–73 (1974).
5. Andersson, S. H. and J. Sjovall, A method combining solvent and gel extraction for isolation and preliminary purification of steroids in tissues. Anal Biochem., **134(2)**, 309–312 (1983).
6. Lund, E. et al., Determination of serum levels of unesterified lanosterol by isotope dilution-mass spectrometry. Scand J Clin Lab Invest., **50(7)**, 723–728 (1990).
7. Stark, M. et al., Determination of proteins, phosphatidylethanolamine, and phosphatidylserine in organic solvent extracts of tissue material by analysis of phenylthiocarbamyl derivatives. Anal. Biochem., **265(1)**, 97–102 (1998).

Sephadex is a registered tradmark of Pharmacia, a division of Amersham Biosciences. Lipidex is the brand name of a line of lipophilic resins distributed by Packard Instrument Co, Downers Grove, IL.

IRB/RXR 8/03