

Product Data Sheet

Product Name: Sephadex LH 20

Cat. No.: GC61779

Chemical Properties

Cas. No. 9041-37-6

SMILES [Sephadex LH 20]

Formula $C_{11}H_9N_3NaO_2$ M.Wt 238.20

Solubility H_2O : < 0.1 mg/mL (insoluble) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Sephadex LH 20

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

Sephadex LH 20 is a cross-linked dextran-based resin used in gel permeation, normal phase partition and adsorption chromatography of lipids, steroids, fatty acids, hormones, vitamins, etc. together with organic solvent mobile phases^[1, 2]. Sephadex LH 20 is a hydroxypropyl derivative of Sephadex G-25. Its gel matrix is modified to significantly improve its compatibility in polar organic solvents or aqueous-organic mixed systems^[3]. Sephadex LH 20 filler is widely used in the preparation and purification of natural products (such as steroids, terpenoids, lipids and low molecular weight peptides)^[4, 5]. Consequently, obtaining high-purity isolates via Sephadex LH 20 chromatography is often a prerequisite for subsequent in vivo assays, ensuring that observed biological effects are attributable to the specific active compound rather than contaminants.

References:

- [1] Cansu A G. Investigating the adsorption behavior of simple benzene derivatives on cross-linked dextran polymer[J]. 2023.
- [2] Kale A, Zhu F, Cheryan M. Separation of high-value products from ethanol extracts of corn by chromatography[J]. Industrial Crops and Products, 2007, 26(1): 44-53.
- [3] Tian Y, Liimatainen J, Pukanen A, et al. Sephadex LH-20 fractionation and bioactivities of phenolic compounds from extracts of Finnish berry plants[J]. Food research international, 2018, 113: 115-130.
- [4] Mottaghipisheh J, Iriti M. Sephadex® LH-20, isolation, and purification of flavonoids from plant species: A comprehensive review[J]. Molecules, 2020, 25(18): 4146.
- [5] Dinan L, Harmatha J, Lafont R. Chromatographic procedures for the isolation of plant steroids[J]. Journal of chromatography A, 2001, 935(1-2): 105-123.

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