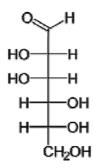


D-Mannose



D-Mannose

Mannose is important in human metabolism, especially in the glycosylation of certain proteins. Mannose can be formed by the oxidation of mannitol.

D-mannose is used for preventing urinary tract infections and treating carbohydrate-deficient glycoprotein syndrome, an inherited metabolic disorder.



D-Mannose in Pharmaceutical Formulation

SeQuant® ZIC®-cHILIC

Chromatographic Conditions

Column: SeQuant® ZIC ®-cHILIC (3μm, 100Å) PEEK 150 x 4.6 mm 1.50661.0001

Injection: 10 µL

Detection: Shimadzu Prominence, R.I.

Cell: 10 μ L Flow Rate: 0.5 mL/min

Mobile Phase: Dissolve 3.54 g of ammonium acetate in 500 ml milliQ water.

Mix buffer & acetonitrile 20:80 (v/v)

Temperature: 40 °C (oven), 40 °C (detector cell)

Diluent Mobile phase

Dissolve 30 mg D-mannose standard in 10 ml volumetric flask.

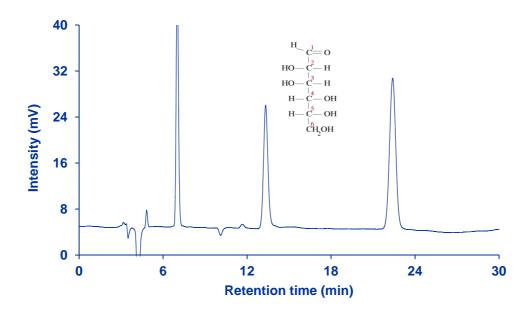
Standard: Dilute upto the mark with diluent.

Sample: Pipette out 2.5 ml of suspension into a 50 ml volumetric flask. Add 30 ml of

diluent. Sonicate for 10 minutes. Centrifuge the solution at 10000 rpm for

10 minutes. Filter through 0.2 um filter paper.

Pressure Drop: 29 Bar(421 psi)



Chromatographic Data:

No.	Compound	Retention Time (min)	Theoretical Plate	Tailing factor
1	D-Mannose	13.3	5676	1.1