

L-Rhamnose Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: L-Rhamnose

Catalog No.: CFN99545

Cas No.: 6155-35-7

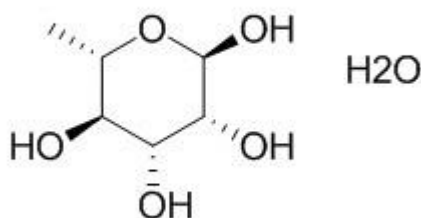
Purity: >=98%

M.F: C₆H₁₄O₆

M.W: 182.17

Physical Description: White cryst.

Synonyms: L-Rhamnose monohydrate; Rhamnose; 6-Deoxy-L-mannose.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[Source]

The flowers of *Scphora japonica* L.

[Biological Activity or Inhibitors]

L-Rhamnose can increase serum propionate after long-term supplementation, but lactulose does not raise serum acetate.^[1]

L-Rhamnose and probably its neighboring residues in the other core of *P. aeruginosa* are heterogeneous in some association with the O serotype.^[2]

L-fucose and especially L-rhamnose have anticancer potential, they exert a significant suppressive effect on tumour growth.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

HPLC-ELSD:

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 80 °C;

Flow rate of gas : 2.2 L/min;

Carrier gas: N₂.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Vogt J A, Ishii-Schrade K B, Pencharz P B, *et al. Am. J. Clin. Nutr.*, 2004, 80(5):1254-61.

[2] Yokota S, Ochi H, Ohtsuka H, *et al. Infect. Immun.*, 1989, 57(6):1691-6.

[3] Tomsik P, Soukup T, Cermakova E, *et al. Cent. Eur. J. Biol.*, 2011, 6(1):1-9.

[4] Sun S H, Wang H, Xie J P, *et al. Chemistry Central Journal*, 2016, 10(1):25.

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