

Nystose Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Nystose

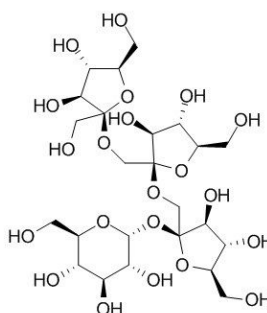
Catalog No.: CFN98574

Cas No.: 13133-07-8

Purity: >=98%

M.F: C₂₄H₄₂O₂₁

M.W: 666.58



Physical Description: Powder

Synonyms: beta-D-fructofuranosyl-(2->1)-beta-D-fructofuranosyl-(2->1)-beta-D-fructofuranosyl alpha-D-glucopyranoside.

[Intended Use]

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

[Source]

The roots of *Morinda officinalis* How.

[Biological Activity or Inhibitors]

Nystose has anti-hydroxyl radical activity, anti-hydroxyl radical activity is an important factor in the description of antioxidant capacity of any natural product, indicating that nystose has antioxidant capacity.^[1]

A high content of kestose and nestose in the diet can cause a decrease in ileal and cecal pH (to 5.42 and 5.49, respectively) of turkeys, which may promote digestion.^[2]

Nystose and 1-Kestose can modulate the intestinal Microorganisms flora.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Methanol -H₂O=7:93 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 40 °C;

Carrier gas: N₂;

Pressure of gas: 3.5 MPa.

[Storage]

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

[References]

[1] Pejtin B, Savic A G, Petkovic M, *et al. Int. J. Food Sci. Tech.*, 2014, 49(6):1500-5.

[2] Zdunczyk Z, Juskiewicz J, Stanczuk J, *et al. Poultry Sci.*, 2007, 86(6):1133-9.

[3] Yoshida N, Satou W, Hata S, *et al. J. Appl. Glycosci.*, 2006, 53(3):175-80.

[4] Li Y, Huang Y, Yang Z, *et al. Chinese Journal of Pharmaceutical Analysis*, 2007, 27(11):1797-9.

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