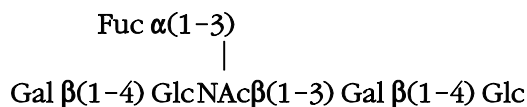




CERTIFICATE OF ANALYSIS

PRODUCT NAME: GLYKO[®] LACTO-N-FUCOPENTAOSE III (LNFP III)
PRODUCT CODE: GKAD-00508
LOT NUMBER: DP13A1101
PACK SIZE: 500 µg (qualitative standard for glycan identification)
PURITY: ≥90% of glycan by HPLC
FORM: Dry solid
STORAGE: Store at -20°C before and after reconstitution
EXPIRATION: February 2018, may be used for 1 year after reconstitution

STRUCTURE:



Quality Control:

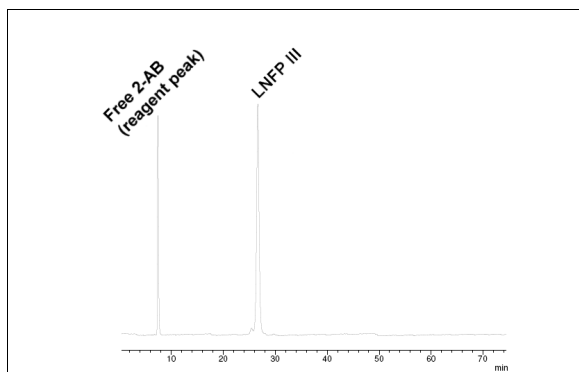


Figure 1 - HPLC results: LNFP III labeled according to the Signal™ 2-AB Labeling Kit (GKK-404) and analyzed on a GlycoSep™ N column (GKI-4728) in ammonium formate/acetonitrile.

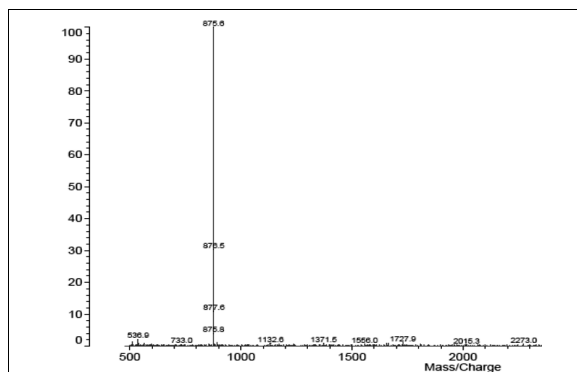


Figure 2 - MALDI-TOF of LNFP III [M + Na]⁺

Molecular Weight: 853.8 (average)¹

Structural Analysis: The purity and structural integrity of the glycan is assessed by one or more of the following techniques: HPLC², mass spectrometry^{3,4}, FACE⁵, ¹H-NMR⁶ and HPAEC-PAD⁷.

Reconstitution: Use HPLC-grade water or an aqueous buffer to dissolve the glycan. Store the reconstituted glycan at -20°C in working aliquots. Avoid multiple freeze/thaw cycles.

Handling: The oligosaccharide is shipped as a dried solid. Allow the unopened vial to reach ambient temperature and tap on a solid surface to ensure that most of the material is at the bottom of the vial. Gently remove the cap, add the desired volume of water or buffer, re-cap and mix thoroughly to redissolve all the oligosaccharide. For maximal recovery, ensure that the cap lining is also rinsed, and centrifuge the reconstituted vial briefly before use.

Make sure that any glassware, plasticware, solvents or reagents which come into contact with the glycan are free of glycosidases and carbohydrate contaminants.

Minimize exposure to elevated temperatures or extremes of pH.

Applications:

- qualitative standard for various analytical procedures
- establishing the specificity of lectins and monoclonal antibodies
- radio-labeling, fluorescent-labeling or formation of a variety of oligosaccharide derivatives
- substrate for glycosidase and glycosyl transferase assays

REFERENCES

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<http://web.expasy.org/glycanmass/>
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Authorized Signature