

mix thoroughly to bring all the oligosaccharide into solution. For maximal recovery of oligosaccharide, ensure that the cap lining is also rinsed and centrifuge the reconstituted vial briefly before use. Ensure that any glass, plasticware or solvents used are free of glycosidases and environmental carbohydrates.

Safety: This product is non-hazardous and has been purified from natural sources certified to be free of all hazardous material including pathogenic biological agents.

For research use only. Not for human or drug use

Related Products

Ludger Cat. No.	Description
CN-A2F-x	A2F Glycan (di-sialylated parent of NA2F glycan)
CN-A1F-x	A1F Glycan (mono-sialylated parent of NA2F glycan)
CN-NA2F-x	NA2F Glycan (di-galactosylated parent of NGA2F glycan)
CN-M3N2F-x	M3N2F Glycan (a substructure of NGA2F glycan)

Warranties and liabilities

Ludger warrants that the above product conforms to the attached analytical documents. Should the product fail for reasons other than through misuse Ludger will, at its option, replace free of charge or refund the purchase price. This warranty is exclusive and Ludger makes no other warrants, expressed or implied, including any implied conditions or warranties of merchantability or fitness for any particular purpose. Ludger shall not be liable for any incidental, consequential or contingent damages.

This product is intended for *in vitro* research only.

Document # 'CN-NGA2F-Guide', revision # 2.1

Ludger™

Certificate of Analysis

NGA2F Glycan

Cat. #s: CN-NGA2F-10U (10 µg) and CN-NGA2F-20U (20µg)

Lot # : A58Q-01

Purity: > 90% pure as assessed by a combination of $^1\text{H-NMR}$ (see Fig 1) and HPLC.

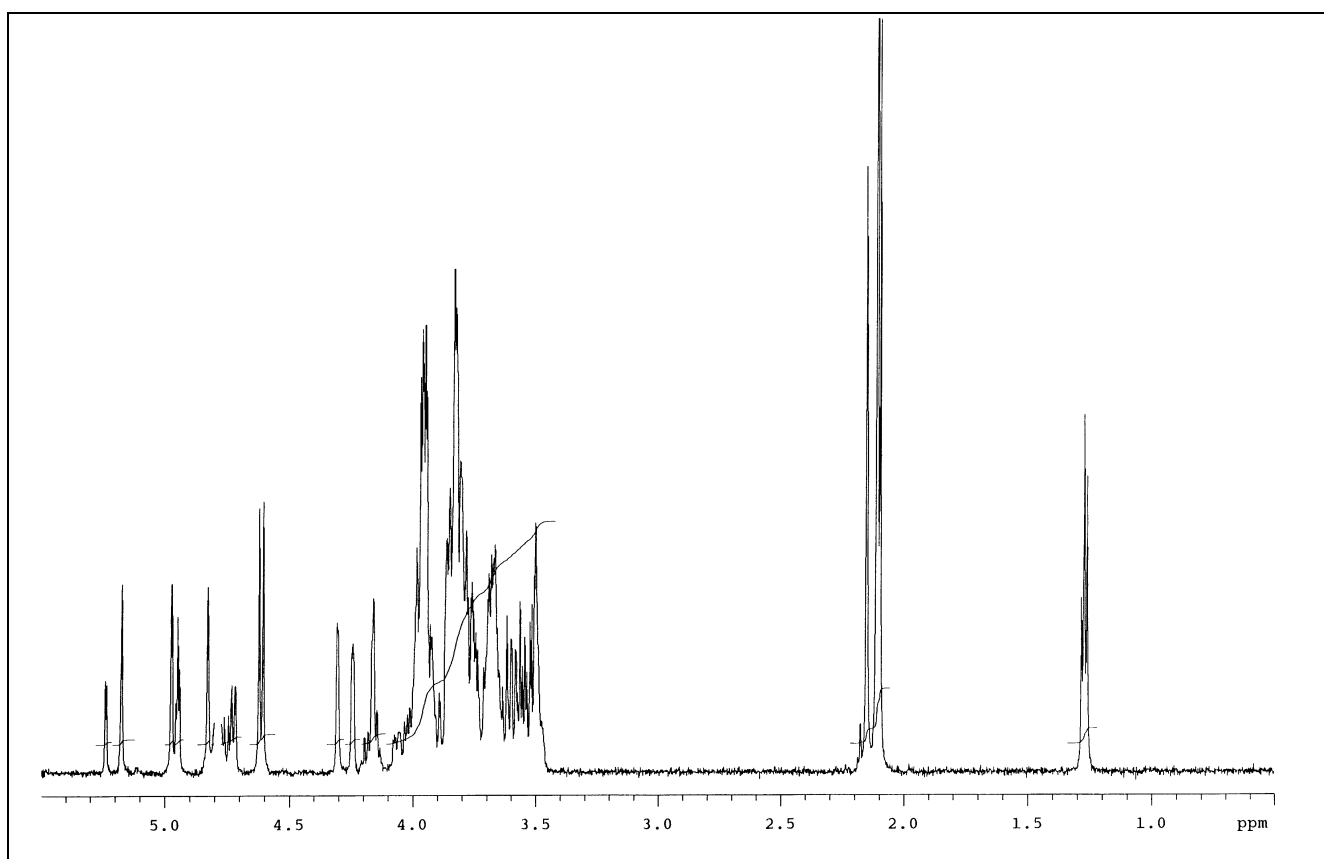


Figure 1 : 500 MHz $^1\text{H-NMR}$ of NGA2F Glycan (Cat. No.CN-NGA2F-10U, Lot No.A58Q-01)



Certificate of Analysis

NGA2F Glycan

Cat. #s: CN-NGA2F-10U (10 µg) and CN-NGA2F-20U (20µg)

Lot # : A77Q-02

Purity: > 95% pure as assessed by HPLC (see Fig 1).

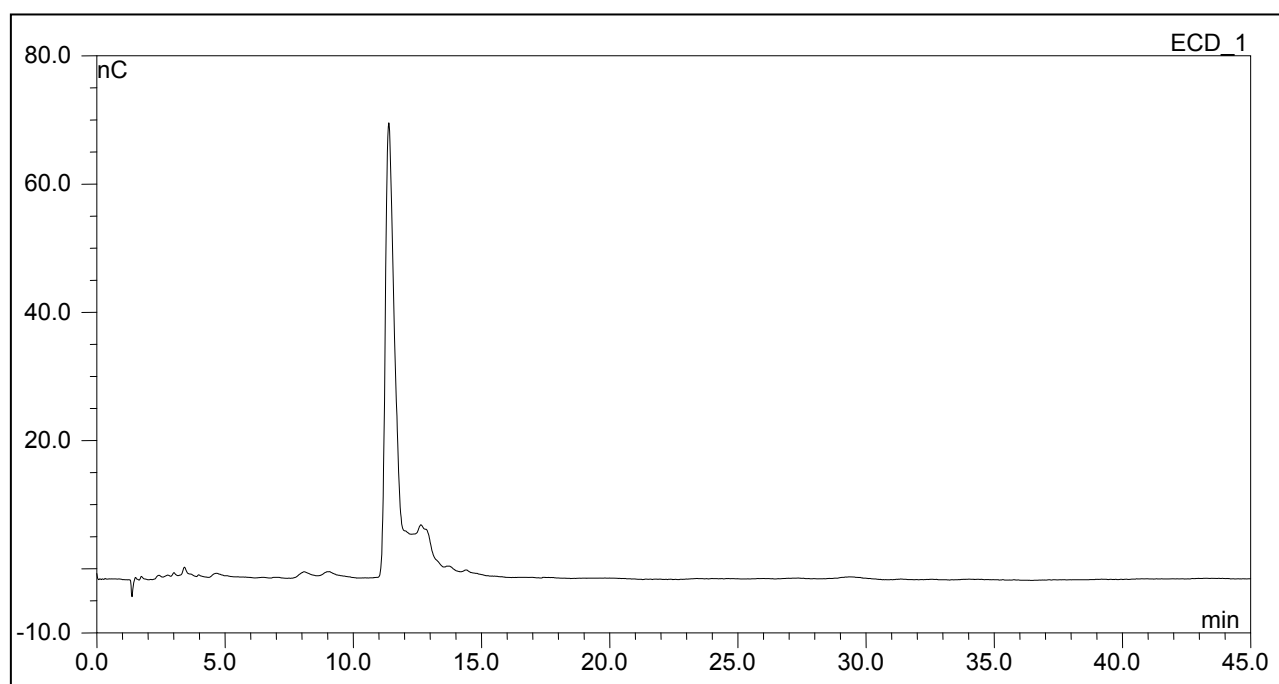
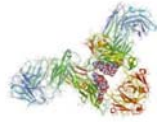


Figure 1 : HPAE-PAD HPLC Profile of NGA2F Glycan (Cat. No.CN-NGA2F-10U, Lot No. A77Q-02)



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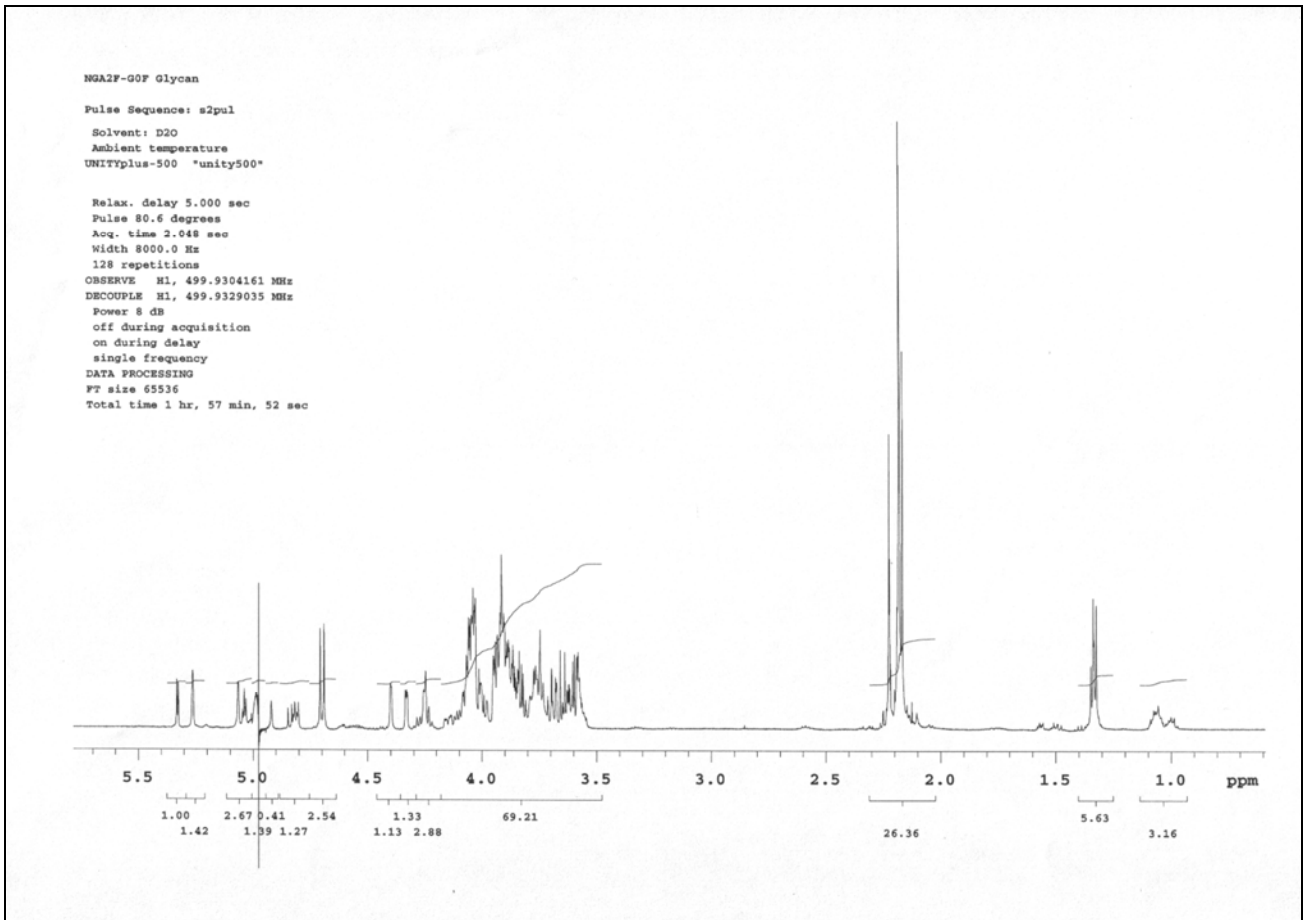
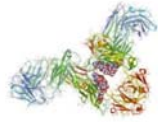


Figure 2 : 500 MHz ¹H-NMR of NGA2F Glycan (Cat. No.CN-NGA2F-10U, Lot No. A77Q-02)



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Data: MS-A77R-01-P24-CN-NGA2F-10u-A77Q-020001.P24[c] 27 Jul 2007 15:34 Cal: MS-A77R-01 27 Jul 2007 15:30
Shimadzu Biotech Axima QIT 2.7.2.20070105: Mode positive, Mid 750+, Power: 79

%Int. 442 mV[sum= 88361 mV] Profiles 1-200 Unsmoothed

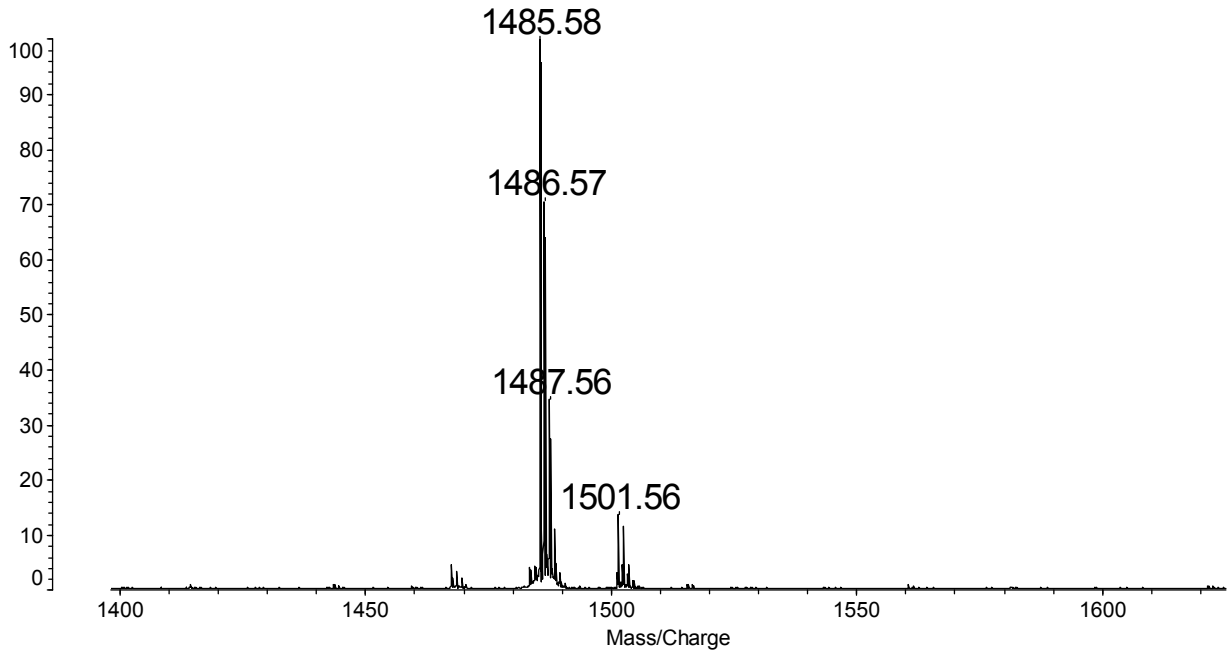


Figure 3 : Shimadzu Axima-QIT mass spectrometer spectrum of NGA2F Glycan (Cat. No.CN-NGA2F-10U, Lot No. A77Q-02). Theoretical mass 1485.53 Da $[M+Na]^+$, 1501.51 Da $[M+K]^+$.