



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.

Minimise exposure to elevated temperatures or extremes of pH. High temperatures and low pH will cause desialylation. High pH will cause epimerisation of the reducing terminus GlcNAc.

**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
CAB-A2F-01	2-AB (2-aminobenzamide) labeled A2F glycan
CAA-A2F-01	2-AA (2-aminobenzopic acid) labeled A2F glycan
CN-A1F-x	A1F Glycan (monosialylated derivative of A2F glycan)
CN-NA2F-x	NA2F Glycan (degalactosylated derivative of A2F glycan)
CN-NGA2F-x	NGA2F Glycan (a substructure of NA2F glycan)
CN-M3N2F-x	M3N2F Glycan (a substructure of NGA2F glycan)

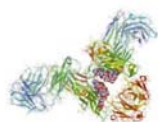
## Warranties and liabilities

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-A2F-Guide', version 2.1



Ludger

## Certificate of Analysis

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### A2F Glycan

Cat. # : CN-A2F-20U

Lot # : A79I-02

Size : 20 µg

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**Purity:** > 90% pure as assessed by a combination of HPAE-PAD (see Fig 1) and NMR (see Fig 4).

The Bulk material was checked by mass spectrometry on an Axima-QIT ion trap instrument after AA-Ac labeling and methyl esterification to stabilize the sialic acids. Expected mass of  $[M+H]^+$  ion = 2654.9 Da, observed mass = 2655.27 Da.

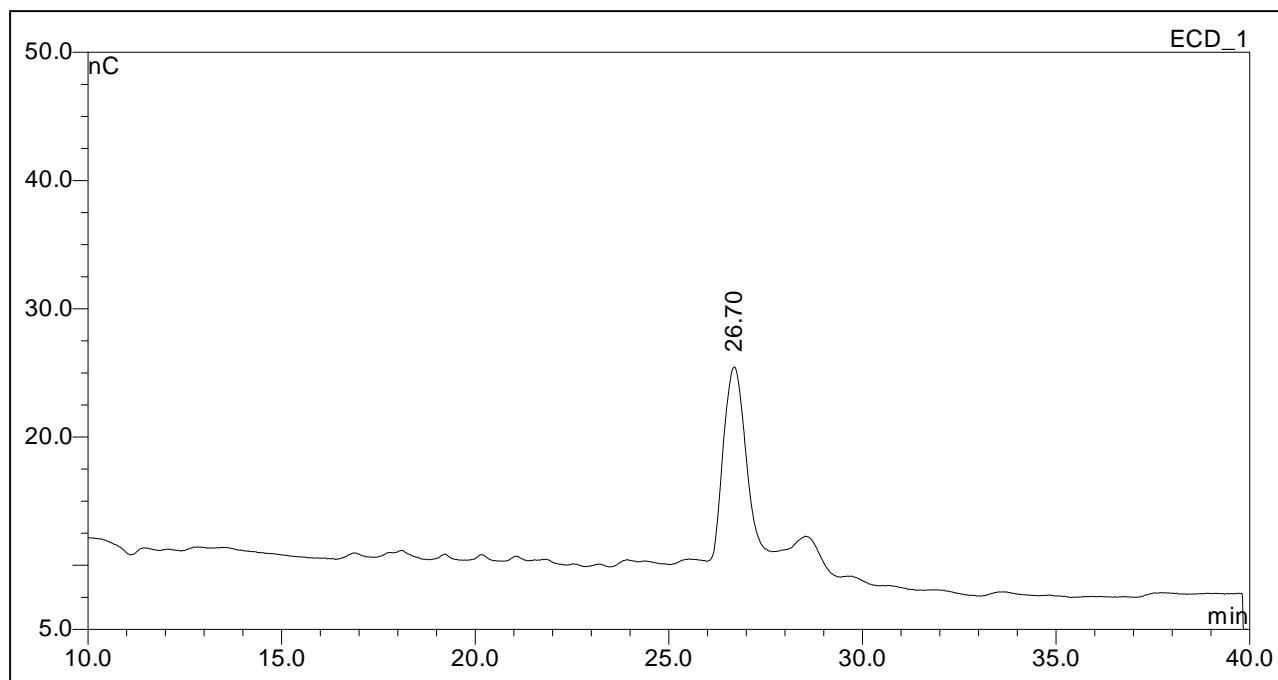


Figure 1 : HPAE-PAD HPLC Profile of A2F glycan (CN-A2F-20U, Lot A79I-02)

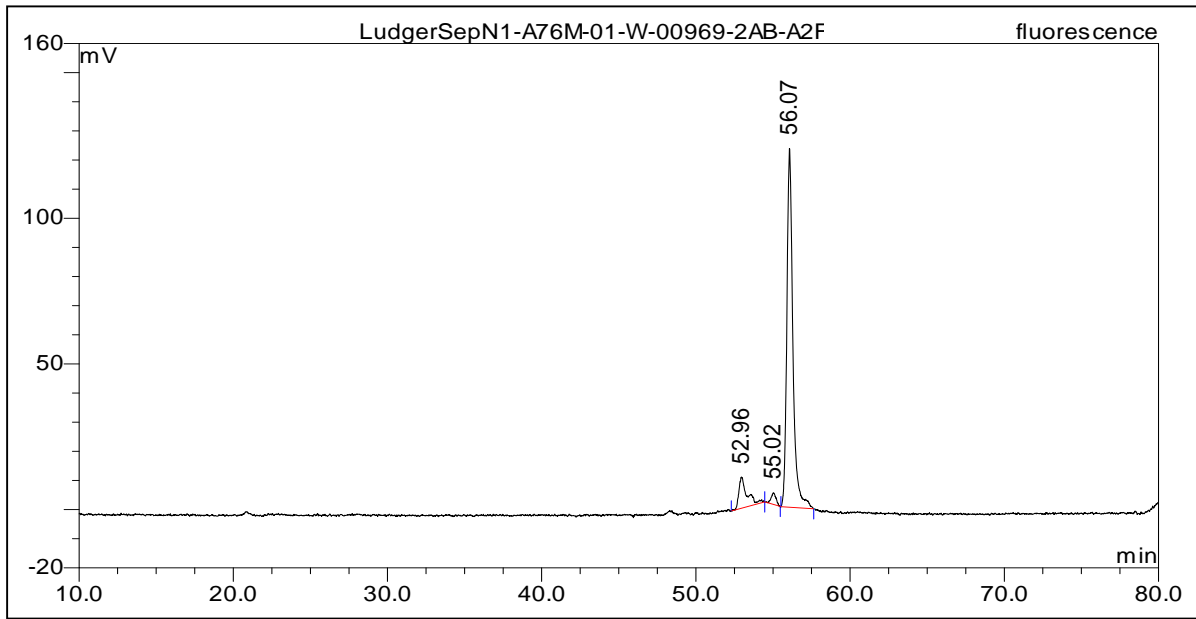


Figure 2: LudgerSep N1 HPLC profile of 2-AB labeled A2F glycan Bulk material used for A79I-02

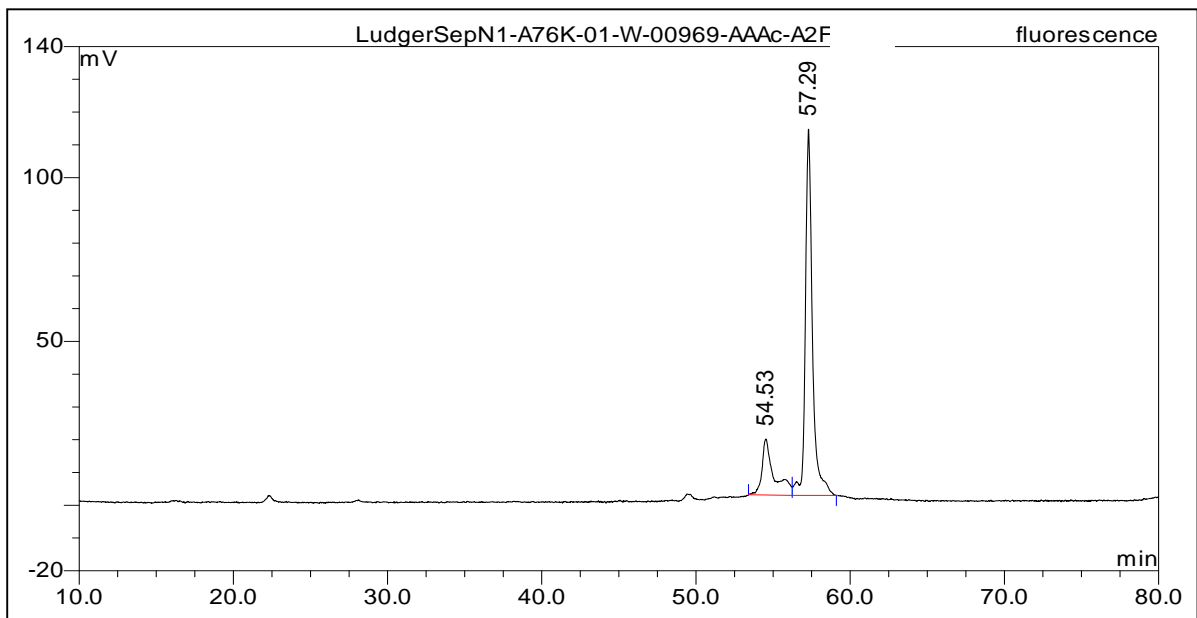
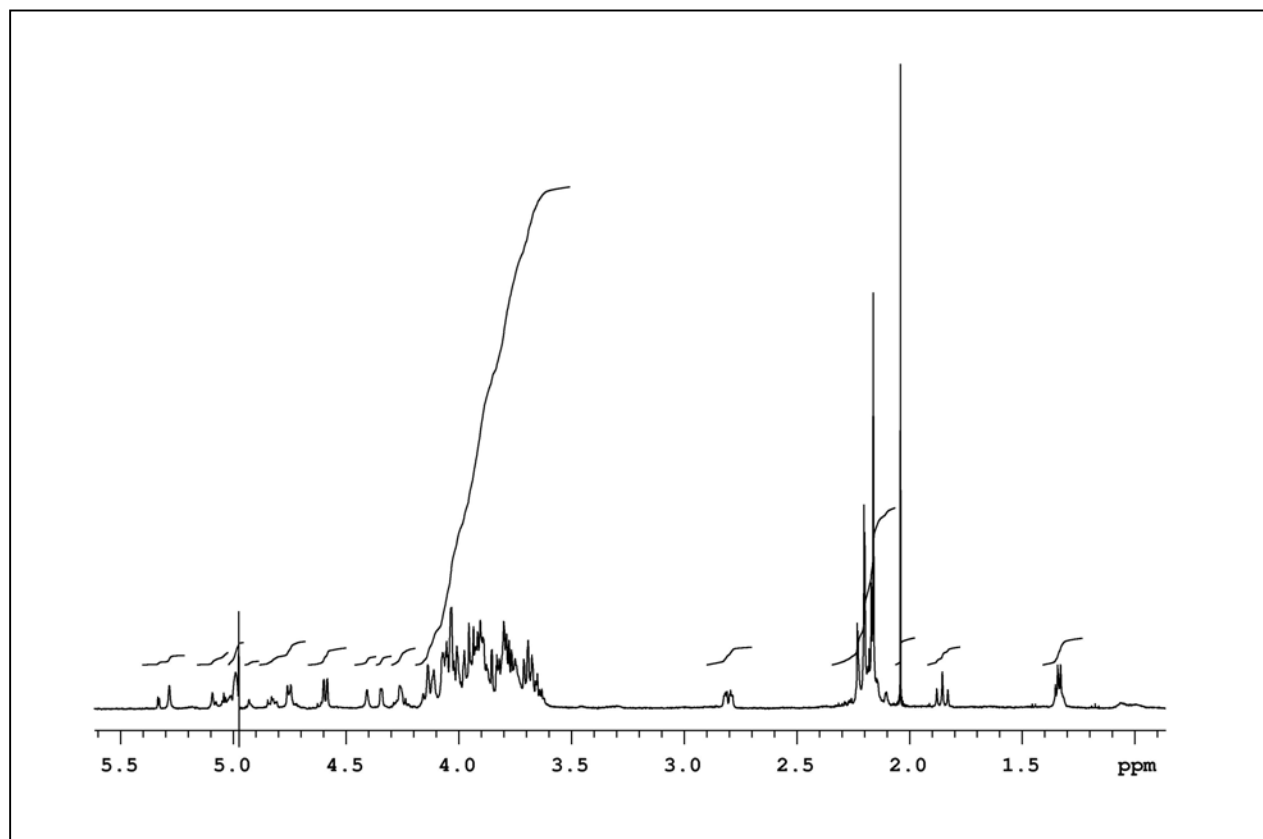


Figure 3: LudgerSep N1 HPLC profile of AAAC labeled A2F glycan Bulk material used for A79I-02



**Figure 4: 500MHz <sup>1</sup>H-NMR of A2F glycan Bulk material used for A79I-02**



## Certificate of Analysis

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### A2F Glycan

Cat. #s : CN-A2F-10U (10 µg) and CN-A2F-20U (20 µg)      Lot # : A7A4-02

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**Purity:** > 90% pure as assessed by a combination of HPAE-PAD (see Fig 1) and NMR (see Fig 4).

The Bulk material was checked by mass spectrometry on an Axima-QIT ion trap instrument after AA-Ac labeling and methyl esterification to stabilize the sialic acids. Expected mass of [M+H]<sup>+</sup> ion = 2654.9 Da, observed mass = 2655.27 Da.

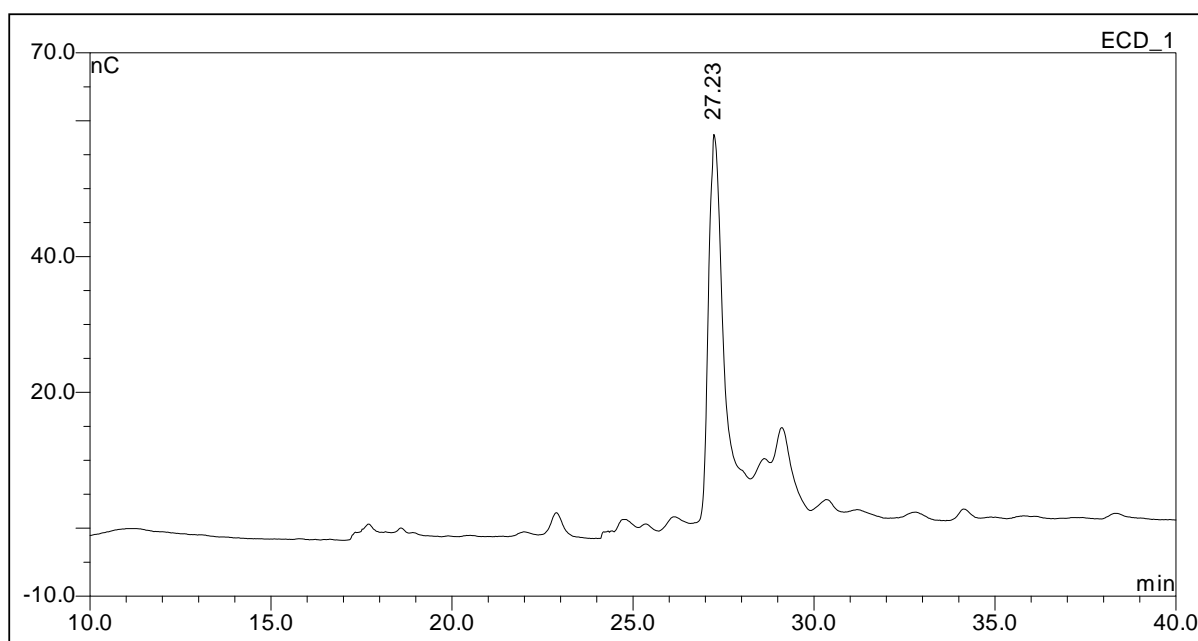


Figure 1 : HPAE-PAD HPLC Profile of A2F glycan (CN-A2F-10U, Lot A7A4-02)

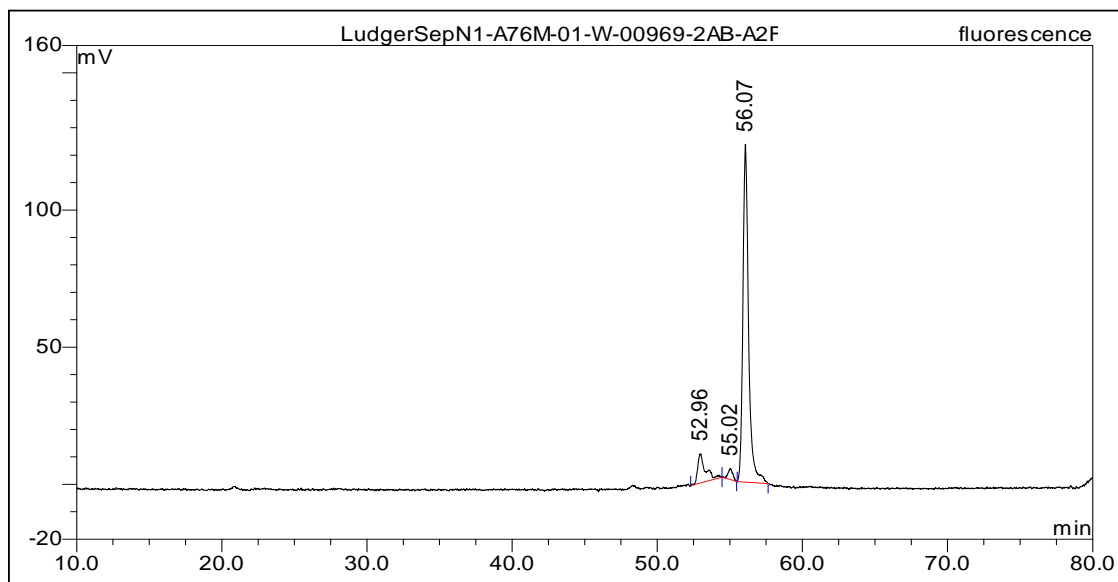


Figure 2: LudgerSep N1 HPLC profile of 2-AB labeled A2F glycan Bulk material used for A7A4-02

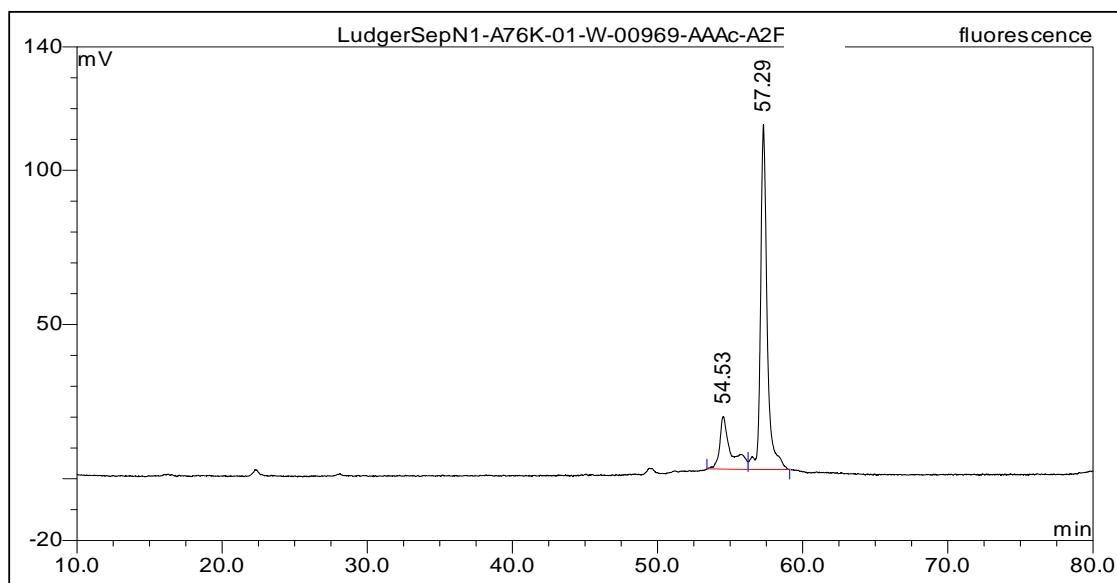


Figure 3: LudgerSep N1 HPLC profile of AAAC labeled A2F glycan Bulk material used for A7A4-02

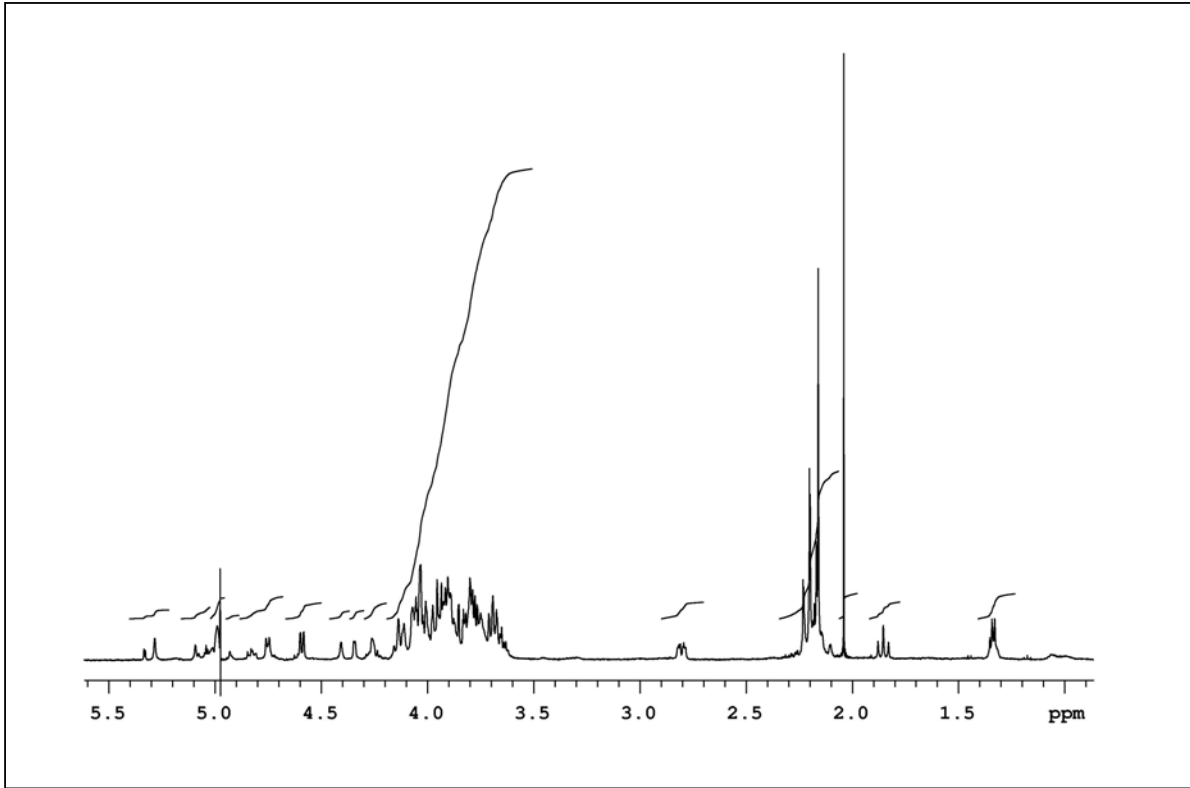


Figure 4: 500MHz <sup>1</sup>H-NMR of A2F glycan Bulk material used for A7A4-02





## Certificate of Analysis

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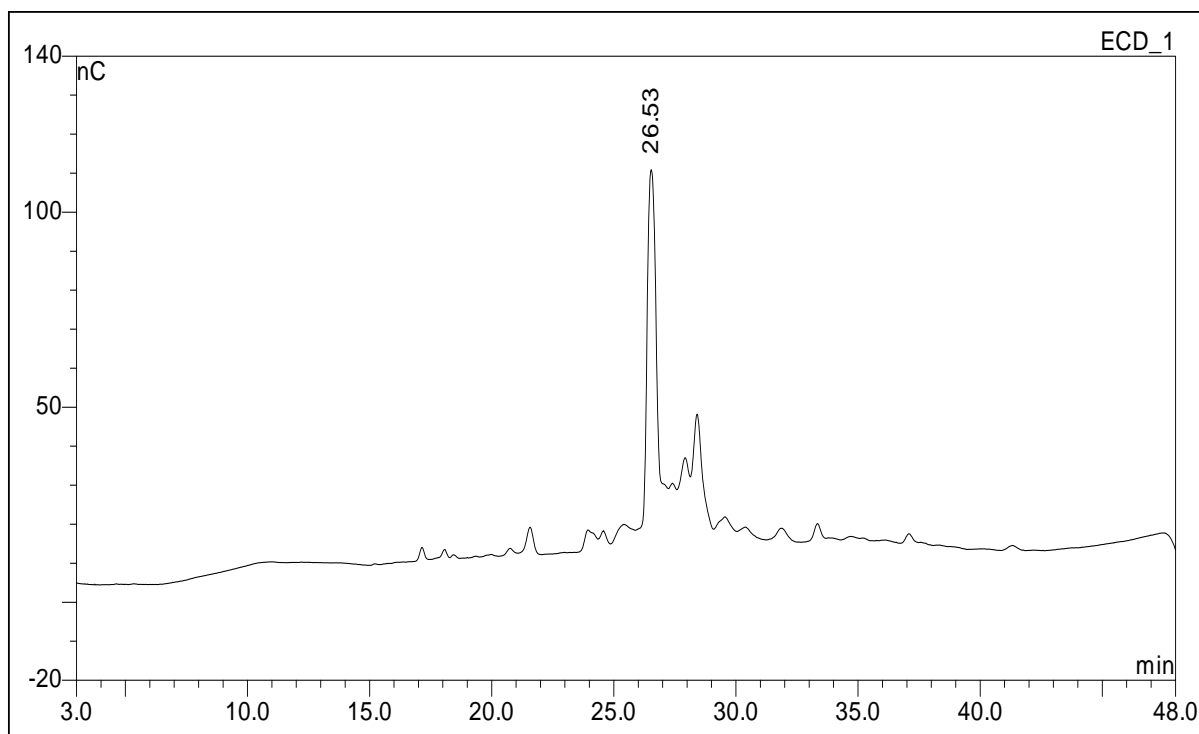
### A2F Glycan

Cat. #: CN-A2F-10U (10 µg) and CN-A2F-20U (20 µg) Lot #: A826-01

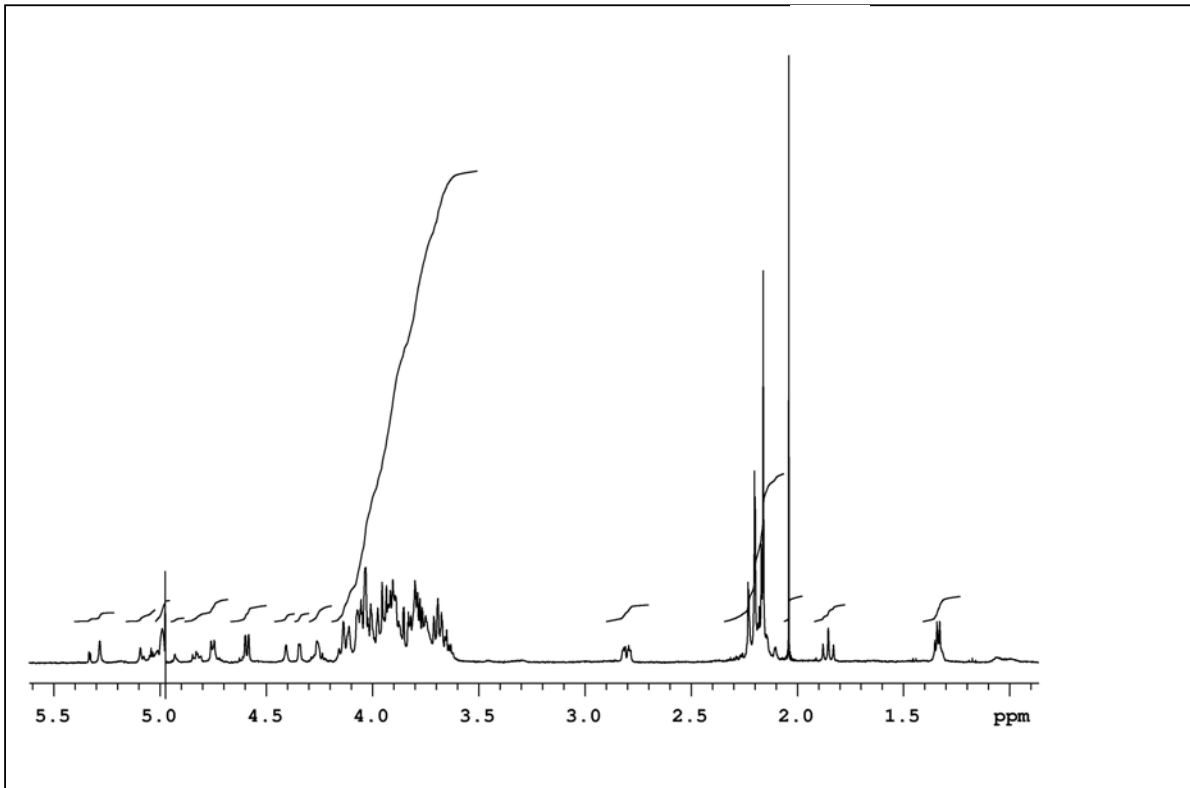
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**Purity:** > 90% pure as assessed by a combination of HPAE-PAD (see Fig 1) and NMR (see Fig 2).

The Bulk material was checked by mass spectrometry on an Axima-QIT ion trap instrument after AA-Ac labeling and methyl esterification to stabilize the sialic acids. Expected mass of [M+H]<sup>+</sup> ion = 2654.9 Da, observed mass = 2655.27 Da.



**Figure 1 : HPAE-PAD Profile of A2F glycan (CN-A2F-10U, Lot A826-01)**



**Figure 2: 500MHz <sup>1</sup>H-NMR of A2F glycan Bulk material used for A826-01.**