



## Ludger

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

Cat # *	Description
CN-A2-x	A2 Glycan (di-sialylated parent of NA2 glycan)
CN-A1-x	A1 Glycan (mono-sialylated parent of NA2 glycan)
CN-NGA2-x	NGA2 Glycan (a substructure of NA2 glycan)
CN-M3N2-x	M3N2 Glycan (a substructure of NGA2 glycan)

\* where x denotes pack size

## 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 warranties, 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-NA2-Guide', revision # v1.2

# Ludger™

## Certificate of Analysis

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NA2 Glycan

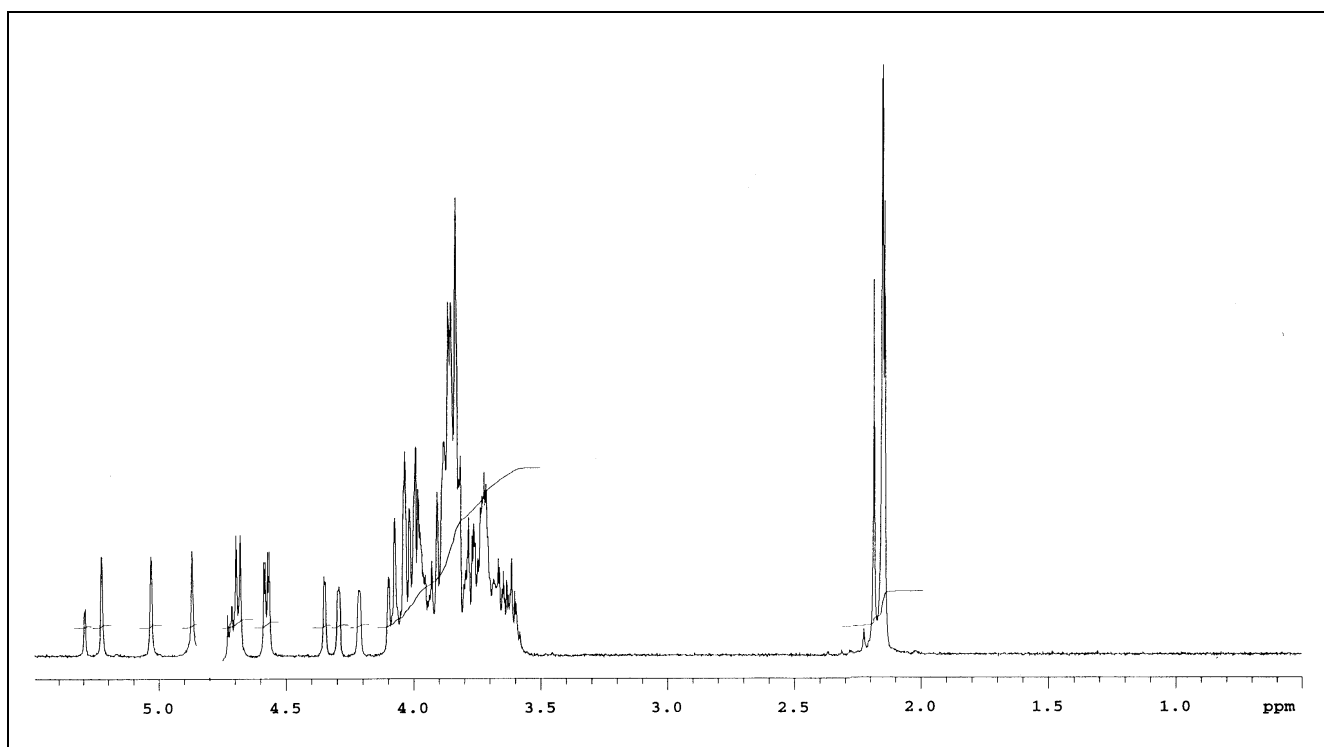
Cat. # : CN-NA2-50U

Lot # : A92N-01

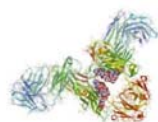
Size : 50 µg

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**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 NA2 Glycan (Cat. No.CN-NA2-50U, Lot No. A92N-01)**



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## Certificate of Analysis

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### NA2 Glycan

Cat. # : CN-NA2-10U

Lot # : A74G-01

Size : 10  $\mu$ g

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**Purity:** > 90% pure as assessed by  $^1\text{H-NMR}$  (see Fig 1), MS (see Fig 2), HPAE-PAD (see Fig 3), and HPLC (see Fig 4).

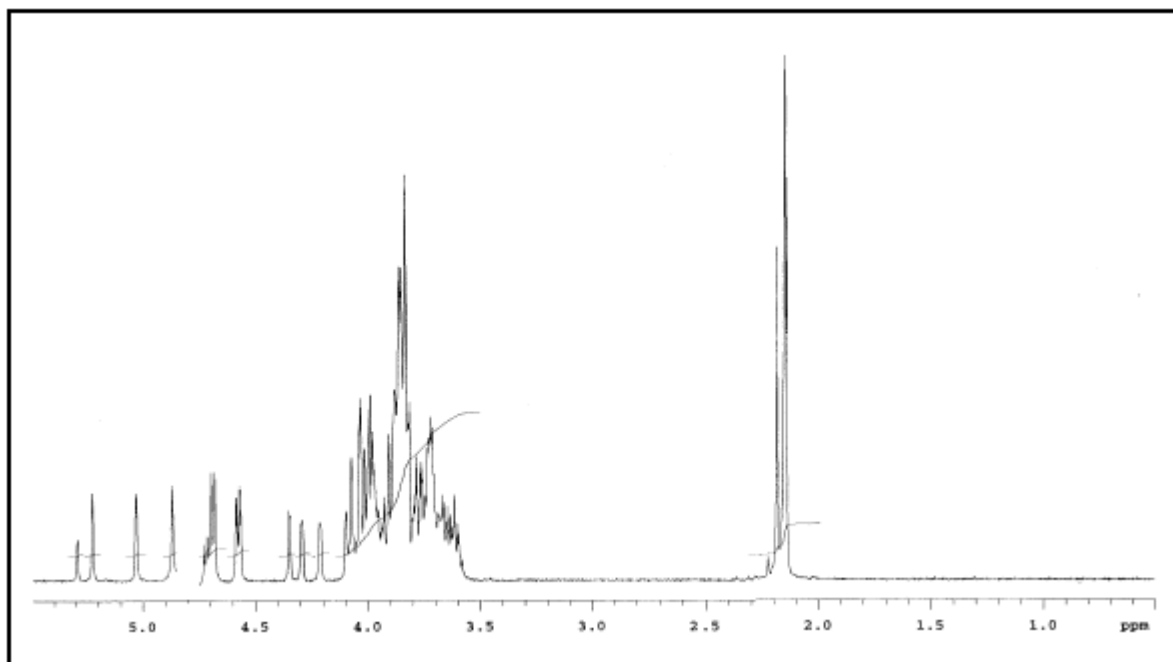


Figure 1 : 500 MHz  $^1\text{H-NMR}$  of NA2 Glycan



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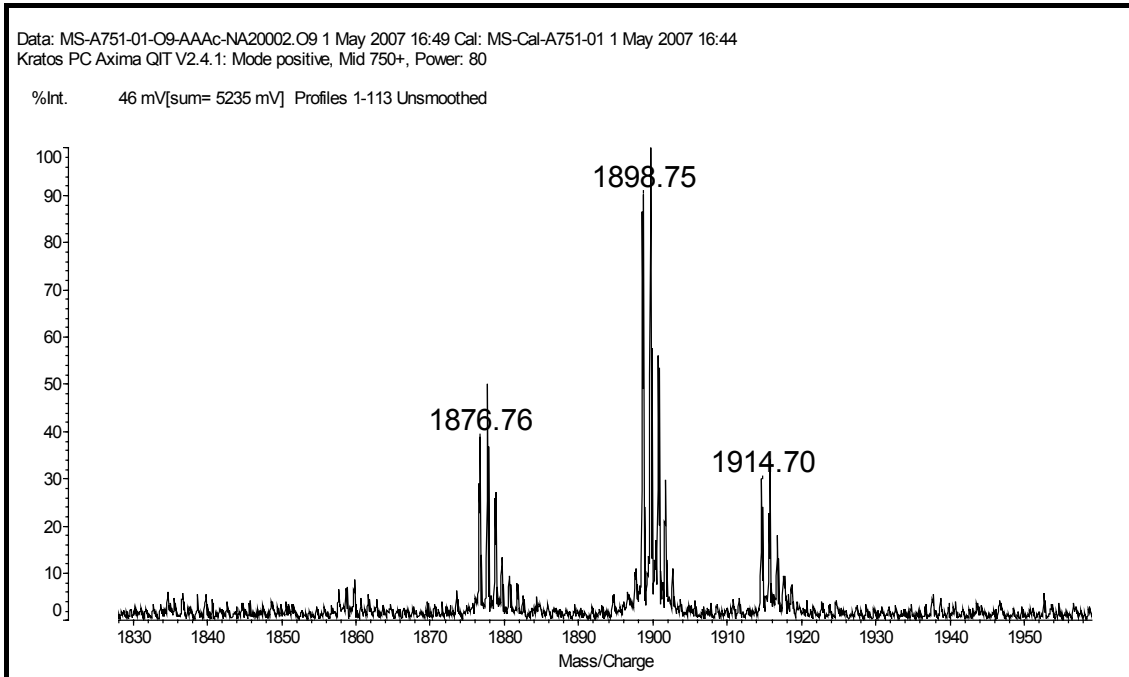


Figure 2 : Axima-QIT MALDI-type spectrum of AAac labelled NA2 – expected mass 1876.71 [M+H]<sup>+</sup>, 1898.69 [M+Na]<sup>+</sup>, 1914.67 [M+K]<sup>+</sup>.

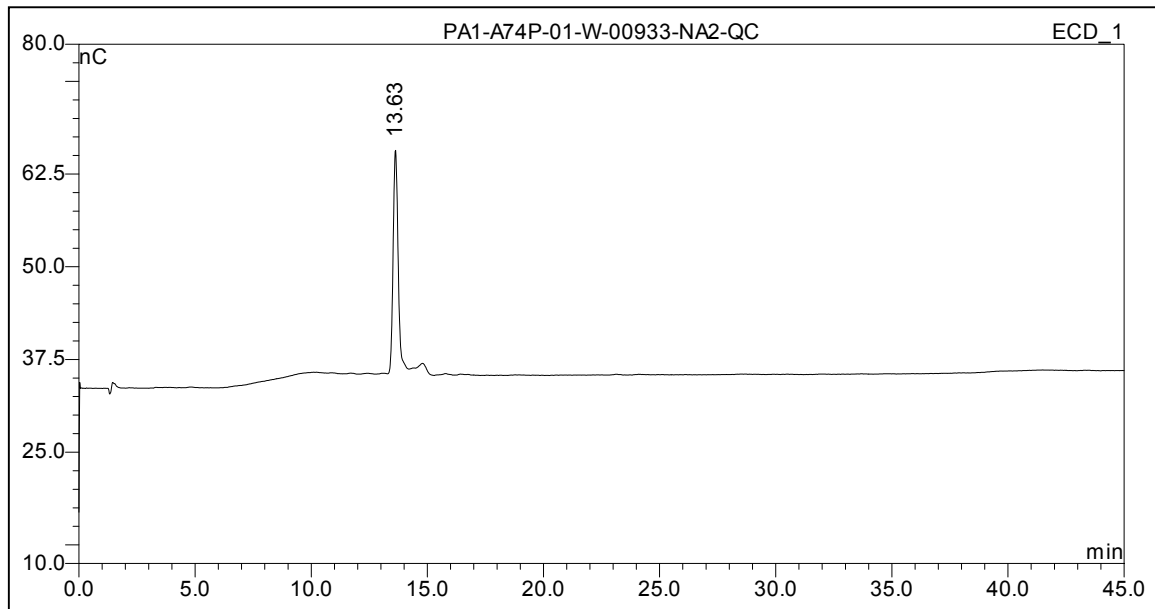


Figure 3 : HPAE-PAD HPLC Profile of NA2 Glycan



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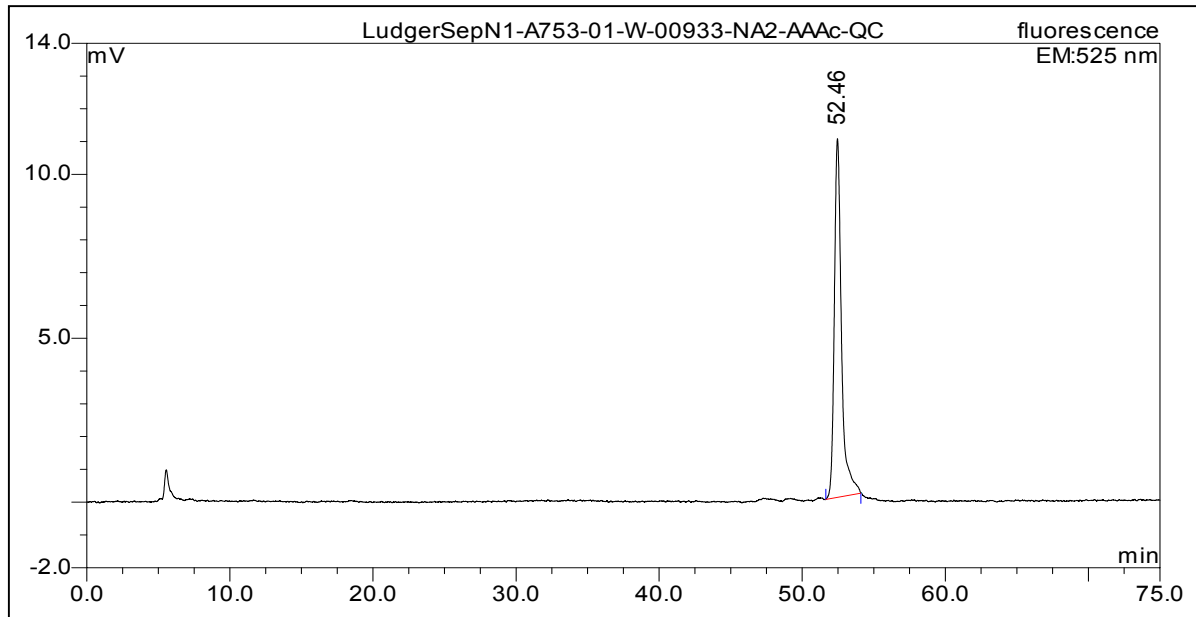


Figure 4 : LudgerSep N1 HPLC trace of AAc labelled NA2



## Certificate of Analysis

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### NA2 Glycan

Cat. # : CN-NA2-10U

Lot # : A852-01

Size : 10 µg

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**Purity:** > 90% pure as assessed by a combination of HPLC (see Fig 1)

**Figure 1 : HPAE-PAD HPLC Profile of NA2 Glycan (Cat. No.CN-NA2-10U, Lot No. A852-01)**

