



## Ludger

**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

<b>Ludger Cat. No.</b>	<b>Description</b>
CN-MAN9-x	Man-9 glycan
CN-MAN8-x	Man-8 glycan
CN-MAN6-x	Man-6 glycan
CN-MAN5-x	Man-5 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 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-MAN7-Guide', revision 1.2



## Certificate of Analysis

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### MAN-7 Glycan

Cat. # : CN-MAN7-10U

Lot # : A65F-01

Size : 10  $\mu$ g

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

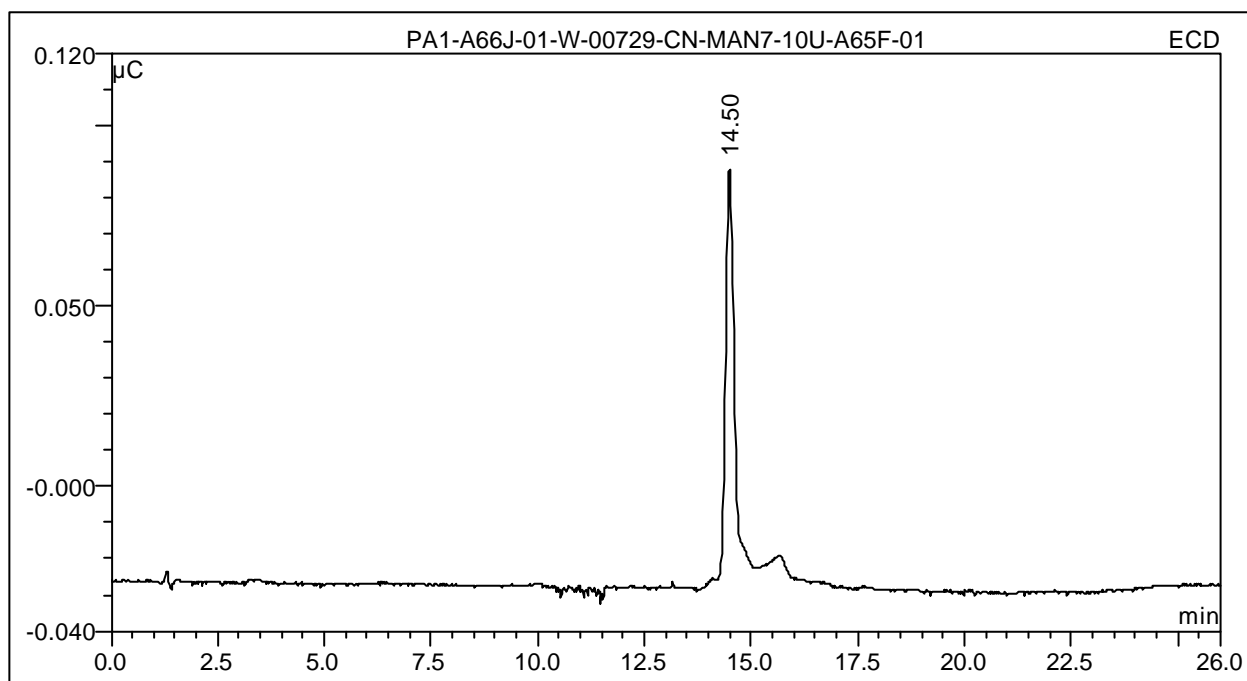


Figure 1 : HPAE-PAD HPLC Profile of MAN-7 Glycan (Cat. No.CN-MAN7-10U, Lot No. A65F-01)



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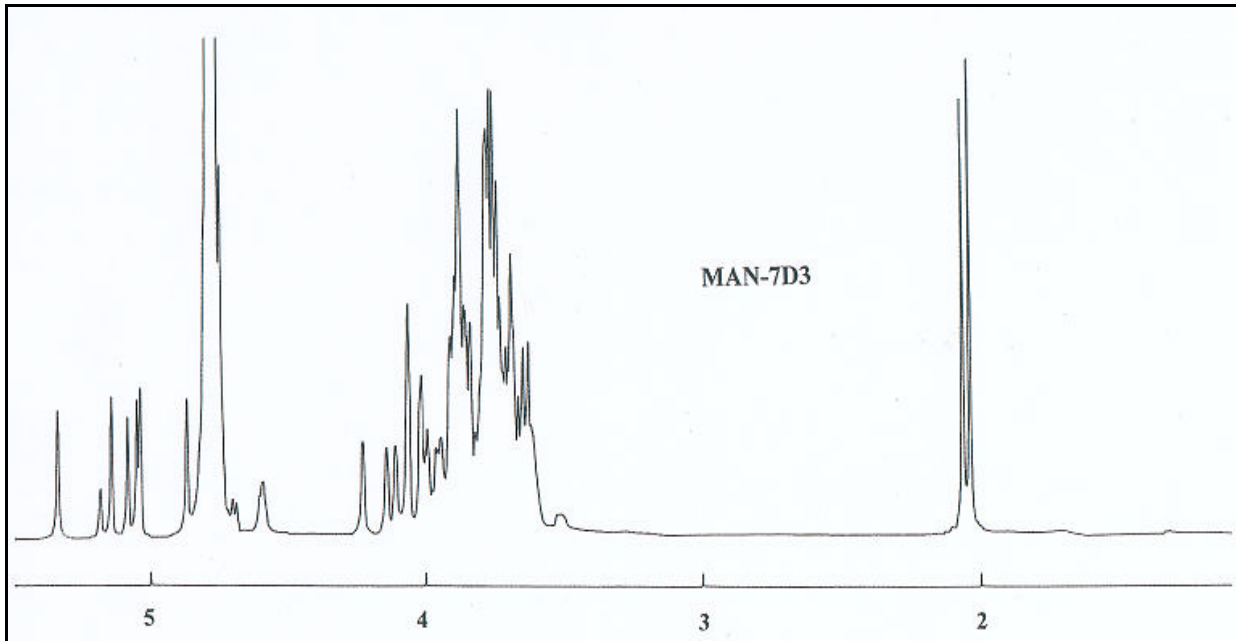


Figure 2 : 500 MHz 1H-NMR of MAN-7 Glycan (Cat. No.CN-MAN7-10U, Lot No. A65F-01)

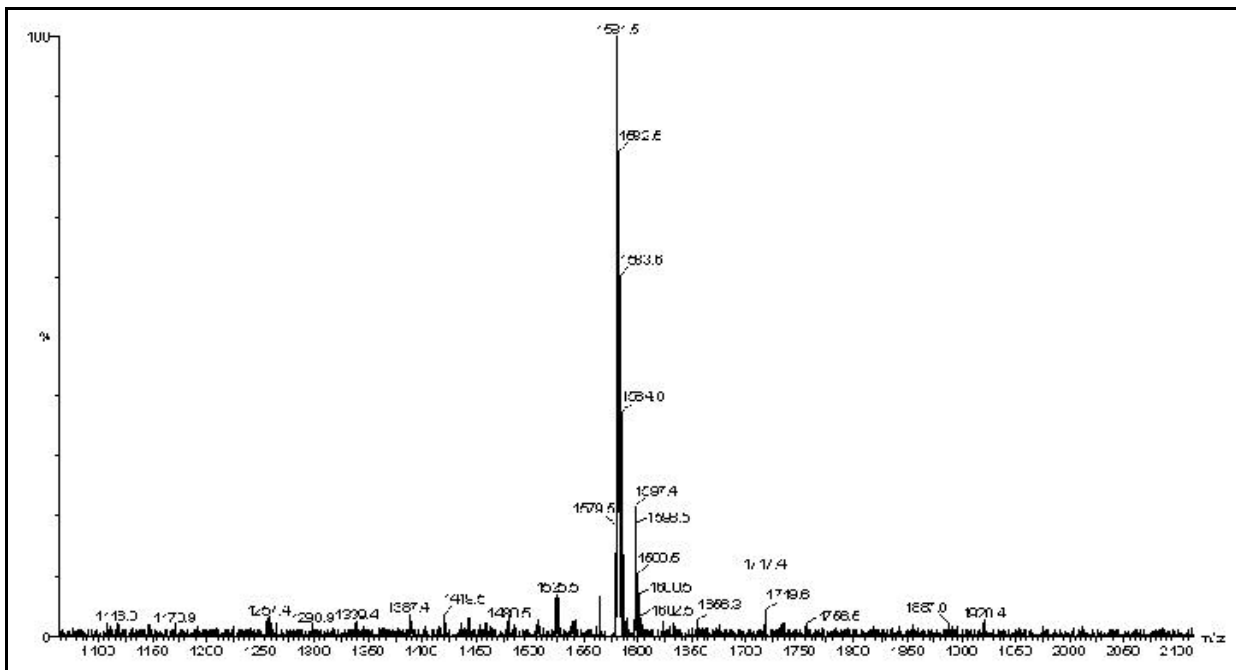


Figure 3 : MALDI-MS Profile of MAN-7 Glycan (Cat. No.CN-MAN7-10U, Lot No. A65F-01)

Expected Mass:  $[M+Na]^+$  1581.54      Actual Mass: 1581.5

Expected Mass:  $[M+K]^+$  1597.54      Actual Mass: 1597.4



## Certificate of Analysis

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### MAN-7 Glycan

Cat. # : CN-MAN7-10U

Lot # : A821-01

Size : 10 µg

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**Purity:** > 90% pure as assessed by a combination of NMR and HPLC .

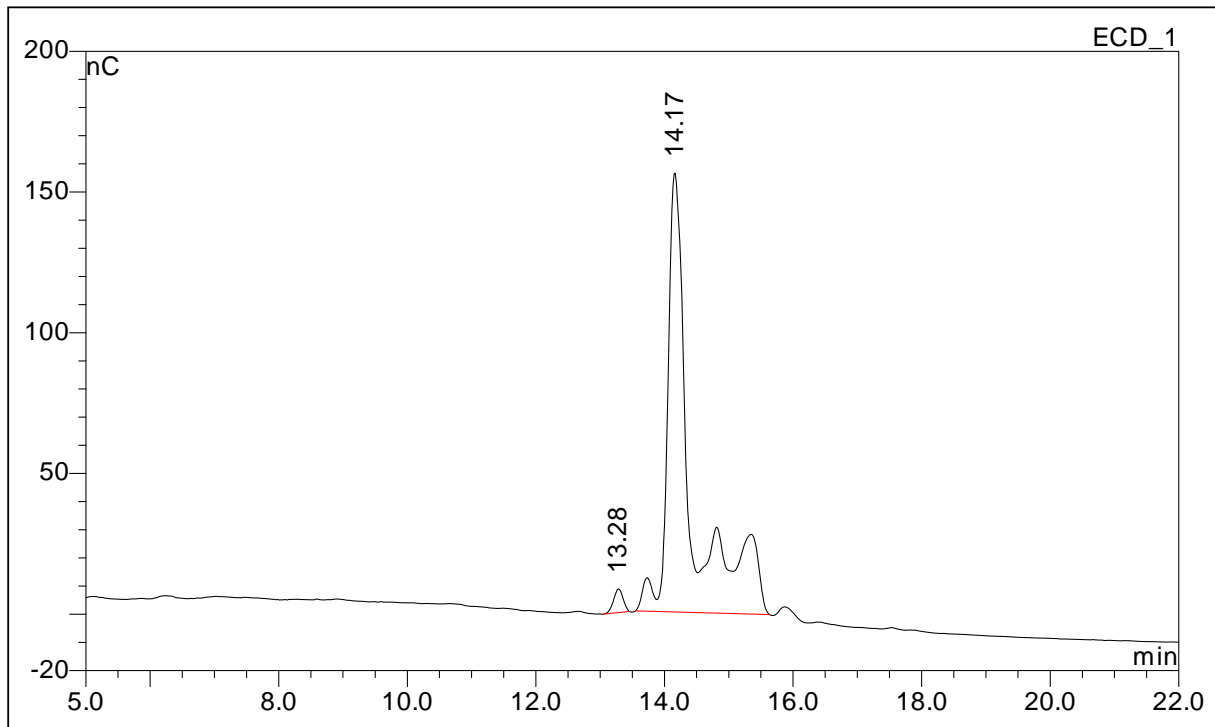
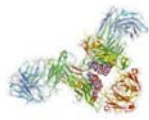


Figure 1 : HPAE-PAD Profile of MAN-7 Glycan (Cat. No.CN-MAN7-10U, Lot No. A821-01)



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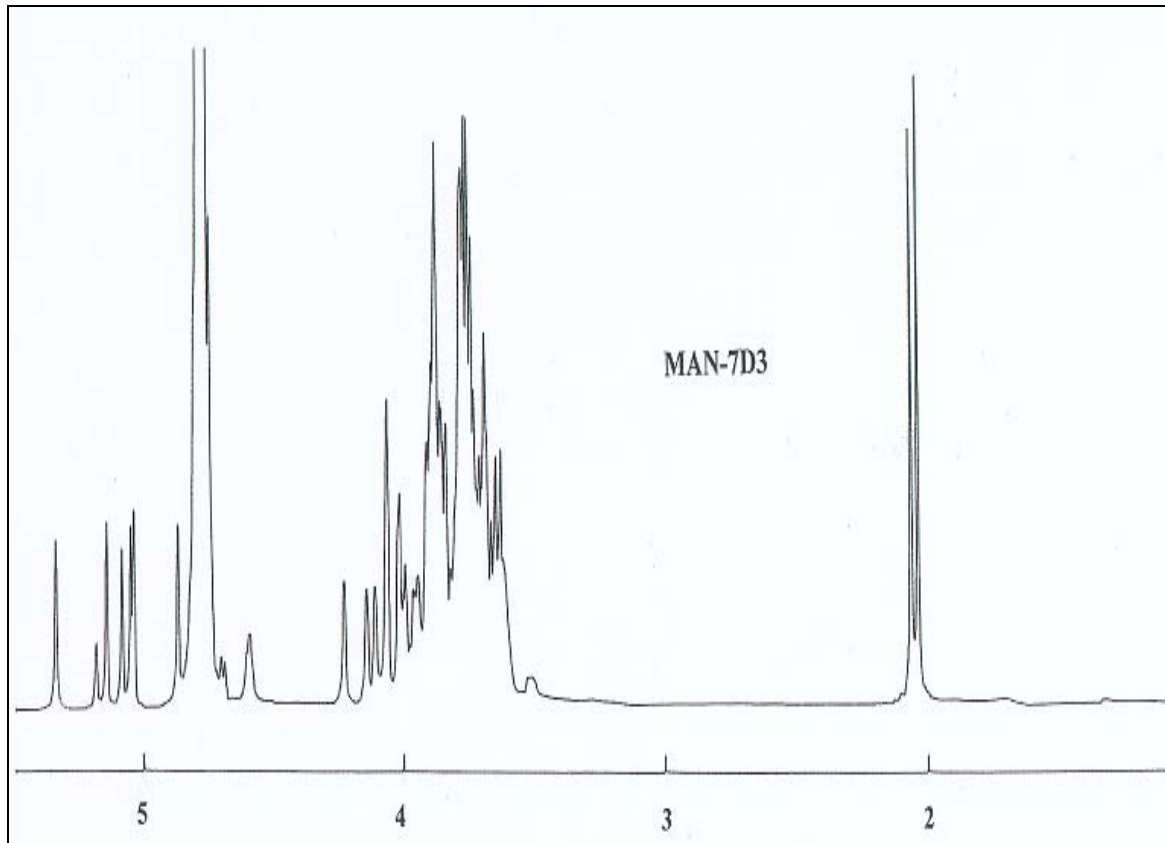


Figure 2 : 500 MHz  $^1\text{H-NMR}$  of MAN-7 Glycan Bulk.