

Ludger

## Certificate of Analysis

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### MAN-6 Glycan

Cat. # : CN-MAN6-10U

Lot # : A88I-01

Size : 10 µg

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

The material was also checked by mass spectrometry on an Axima-QIT ion trap instrument. Expected mass of  $[M+Na]^+$  ion was observed.

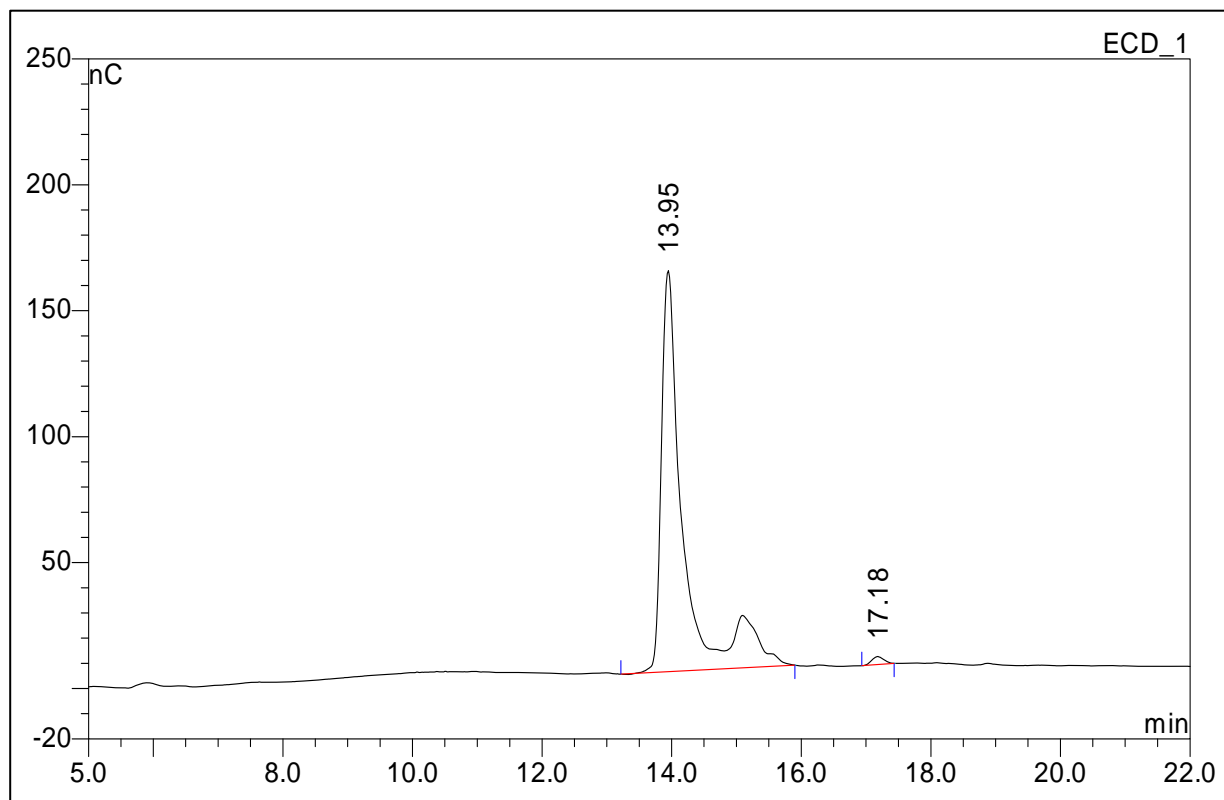
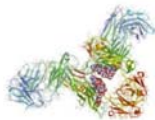


Figure 1: HPAE-PAD HPLC Profile of MAN-6 Glycan (Cat no.CN-MAN6-10U, Lot# A88I-01).



Ludger

Oligomanose 6 Bulk  
Pulse Sequence: s2pul  
Solvent: D2O  
Ambient temperature  
UNITYplus-500 "unity500"

Relax. delay 5.000 sec  
Pulse 89.2 degrees  
Acq. time 2.048 sec  
Width 8000.0 Hz  
32 repetitions  
OBSERVE H1, 499.9305823 MHz  
DECOUPLE H1, 499.9329041 MHz  
Power 6 dB  
off during acquisition  
on during delay  
single frequency  
DATA PROCESSING  
FT size 65536  
Total time 15 min, 31 sec

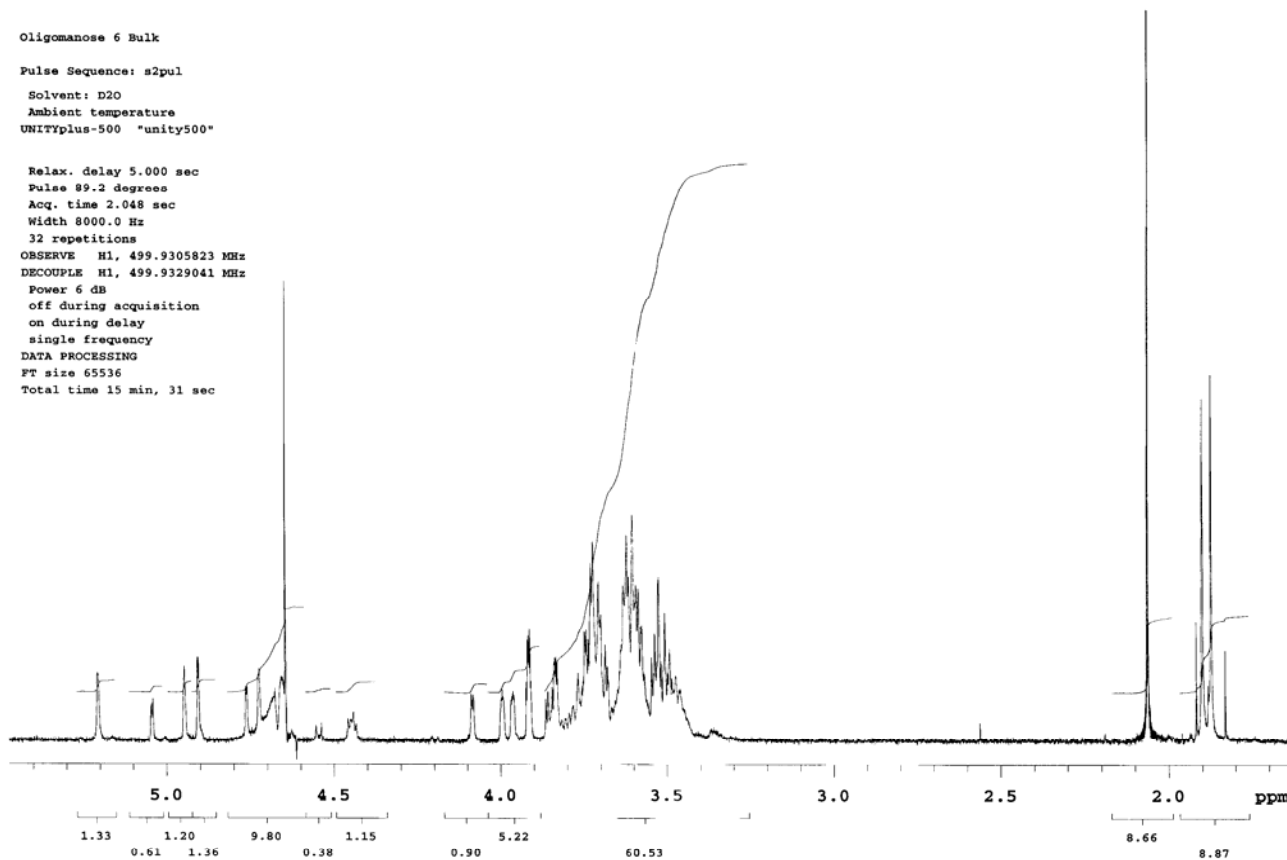


Figure 2: 500 MHz <sup>1</sup>H-NMR of MAN-6 Glycan Bulk used for Cat no. CN-MAN6-10U, Lot# A88I-01.