

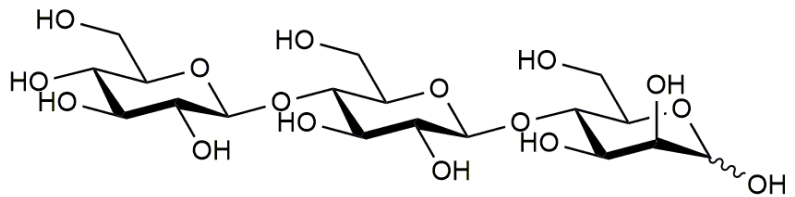


1,4-β-D-CELLOBIOSYL-D-MANNOSE (Lot 170403)

O-GGM

04/17

CAS: 28072-83-5
Molecular Formula: C₁₈H₃₂O₁₆
MW: 504.4



PURITY: > 95% (HPLC)

HPLC:

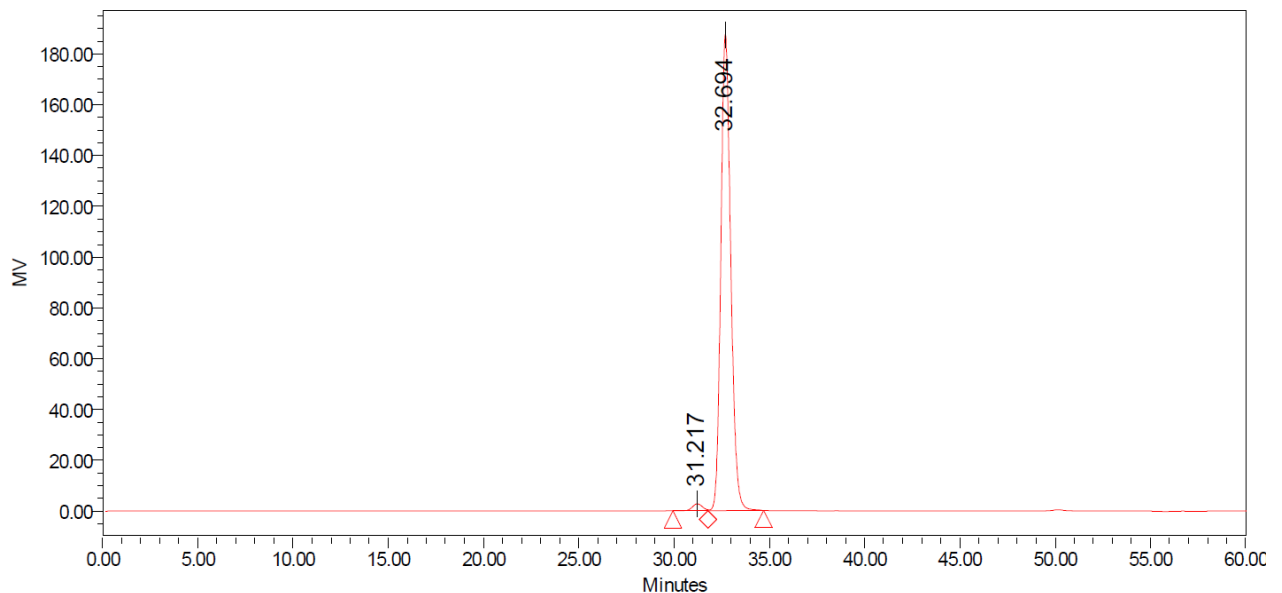
Column: 2 x Tosoh TSK-GEL G2500 PWXL (7.8 x 300 mm) plus guard column (7.8 x 35 mm)

Temperature: 80°C

Mobile phase: dH₂O

Flow rate: 0.5 mL/min

HPLC System: Waters Alliance e2695 Separations Module, Waters 2414 RI detector and Empower v 3 software



Processed Channel: 410

	Processed Channel	Retention Time (min)	Area	% Area	Height
1	410	31.217	101246	1.48	2715
2	410	32.694	6744769	98.52	187443

HPAEC-PAD:

Column: CarboPac PA200 guard and analytical columns (3 x 250 mm)

Temperature: 30°C

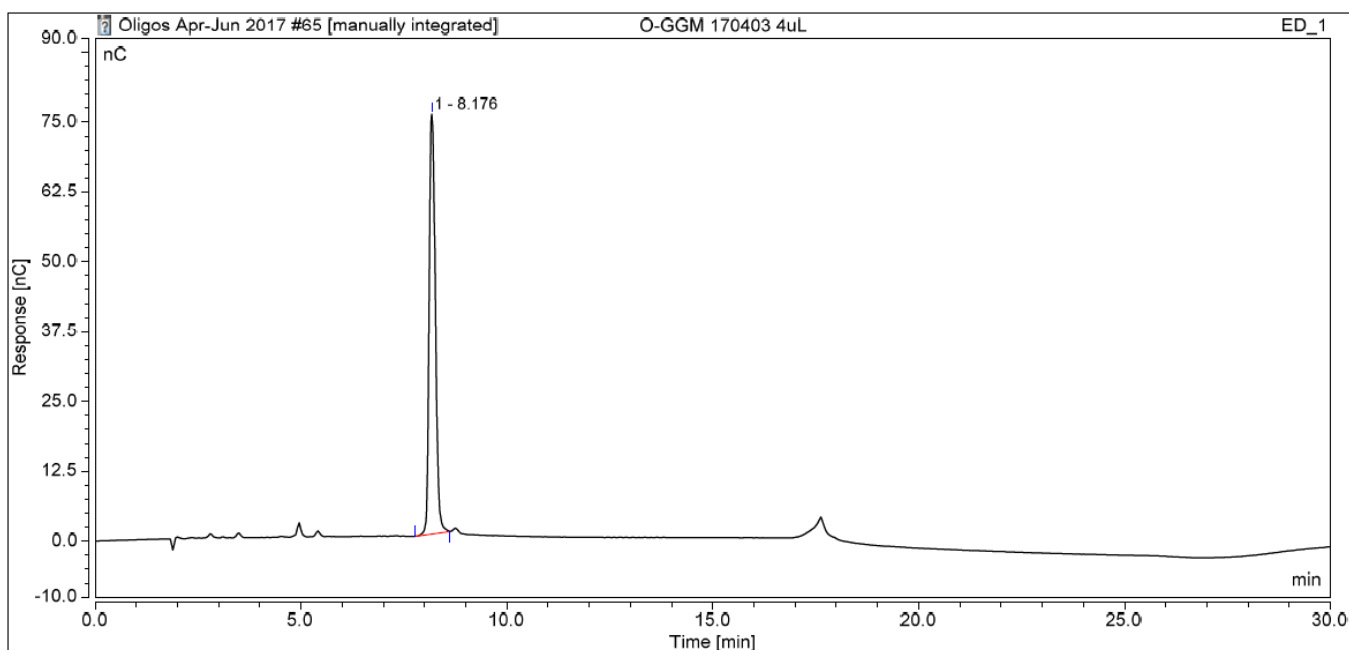
Detector: Au electrode; waveform Carbohydrate, standard quad

Flow rate: 0.5 mL/min

IC system: Dionex ICS5000 + DP system and Chromeleon 7 software

A stepwise linear gradient method was employed as shown.

Time (min)	100 mM NaOH (%)	120 mM NaOAc in 100 mM NaOH (%)
0	100	0
2	100	0
14	85	15
14.5	0	100
23	0	100
24	100	0
30	100	0

**TLC:** n -Propanol: Nitromethane: H₂O = 7:1:2 (run once) on Merck TLC Silicagel 60F₂₅₄