

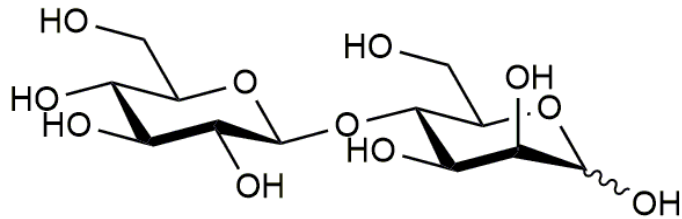


## 1,4-β-D-GLUCOSYL-D-MANNOSE (Lot 170402)

O-GM

04/17

**CAS:** 15761-61-2  
**Molecular Formula:** C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>  
**MW:** 342.3



**PURITY:** > 95% (HPLC)

**HPLC:**

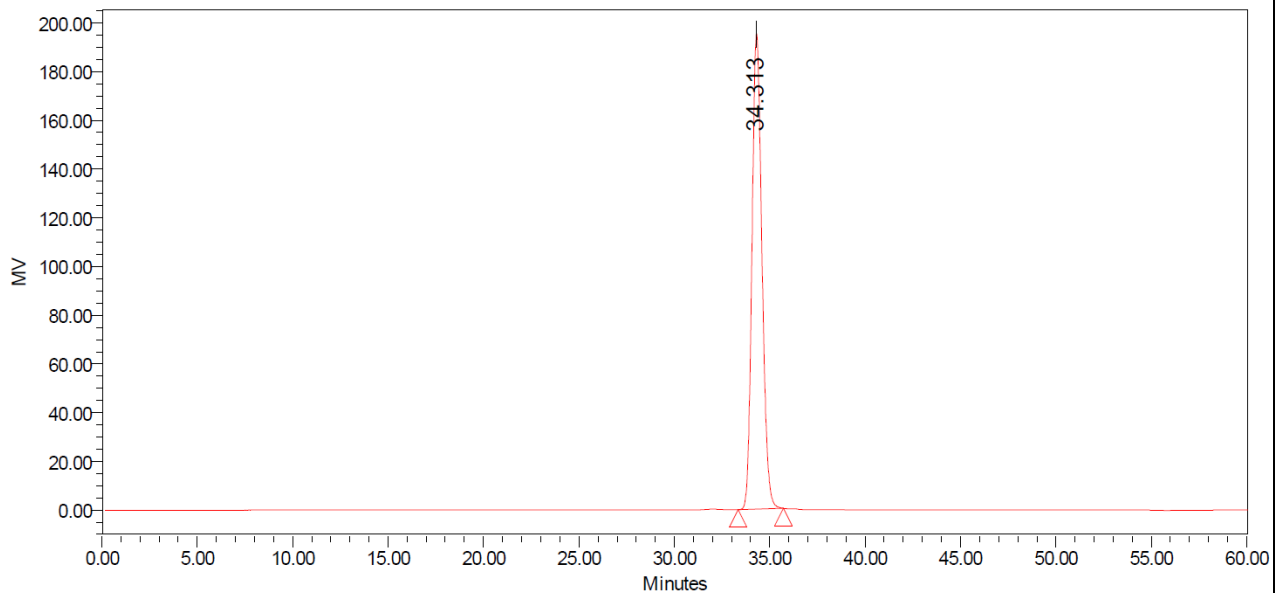
Column: 2 x Tosoh TSK-GEL G2500 PWXL (7.8 x 300 mm) plus guard column (7.8 x 35 mm)

Temperature: 80°C

Mobile phase: dH<sub>2</sub>O

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	34.313	7094260	100.00	195165

**HPAEC-PAD:**

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

Temperature: 30°C

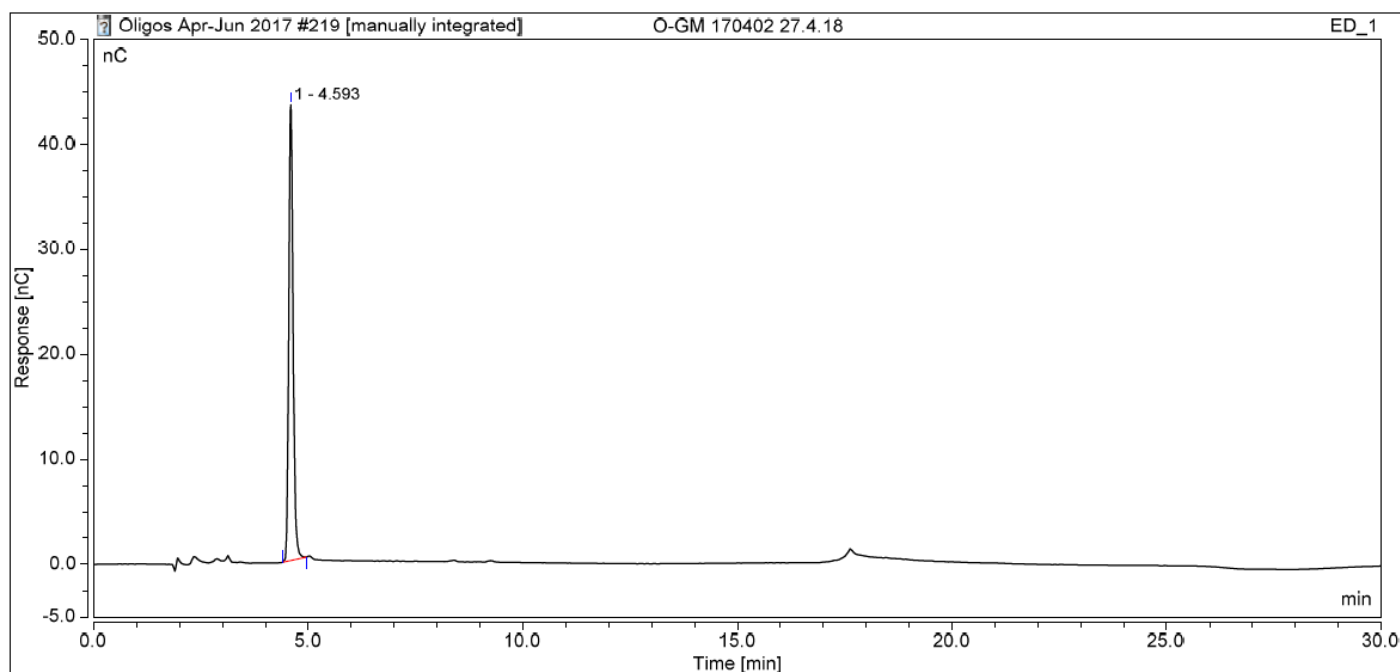
Detector: Au electrode; waveform Carbohydrate, standard quad

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: H<sub>2</sub>O = 7:1:2 (run once) on Merck TLC Silicagel 60F<sub>254</sub>