

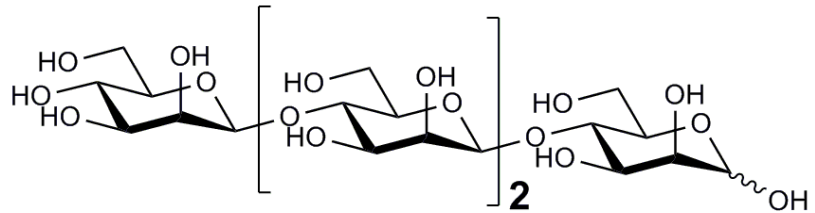


MANNOTETRAOSE (Lot 210704)

O-MTE

07/21

CAS: 51327-76-5
Molecular Formula: C₂₄H₄₂O₂₁
MW: 666.6



PREPARATION:

Prepared by controlled enzymic hydrolysis of mannan.

PURITY: > 95% (HPLC)

HPLC:

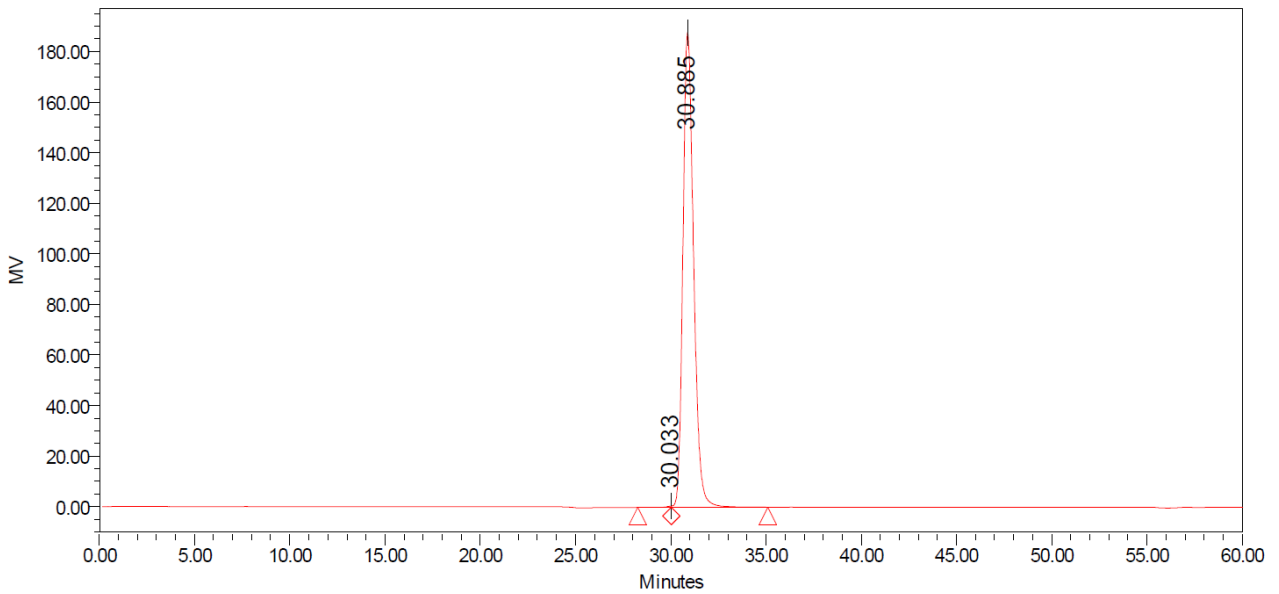
Column: 2 x Tosoh TSK-GEL G2500 PWXL (7.8 x 300 mm) plus guard column (7.8 x 35mm).

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 | 30.033 | 9465 | 0.13 | 551 |
| 2 | 410 | 30.885 | 7305054 | 99.87 | 187820 |

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 100mM NaOH |
|------------|-----------------|--------------------------------|
| 0 | 100 | 0 |
| 2 | 100 | 0 |
| 14 | 85 | 15 |
| 14.5 | 0 | 100 |

