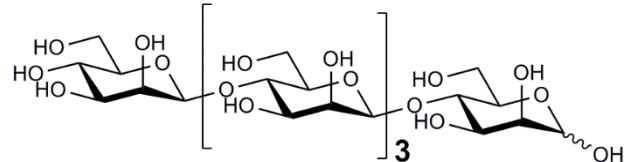


MANNOPENTAOSE (Lot 200305)

04/23

O-MPE

CAS: 70281-35-5
Molecular Formula: C₃₀H₅₂O₂₆
MW: 828.7
PURITY: > 95% (HPLC)



This oligosaccharide is not a certified reference material. The purity stated for this compound is not a % w/w purity, but a purity based on the HPLC peak area relative to other oligosaccharide compounds visible in the chromatograph.

PREPARATION: Prepared by controlled enzymic hydrolysis of mannan.

HPLC:

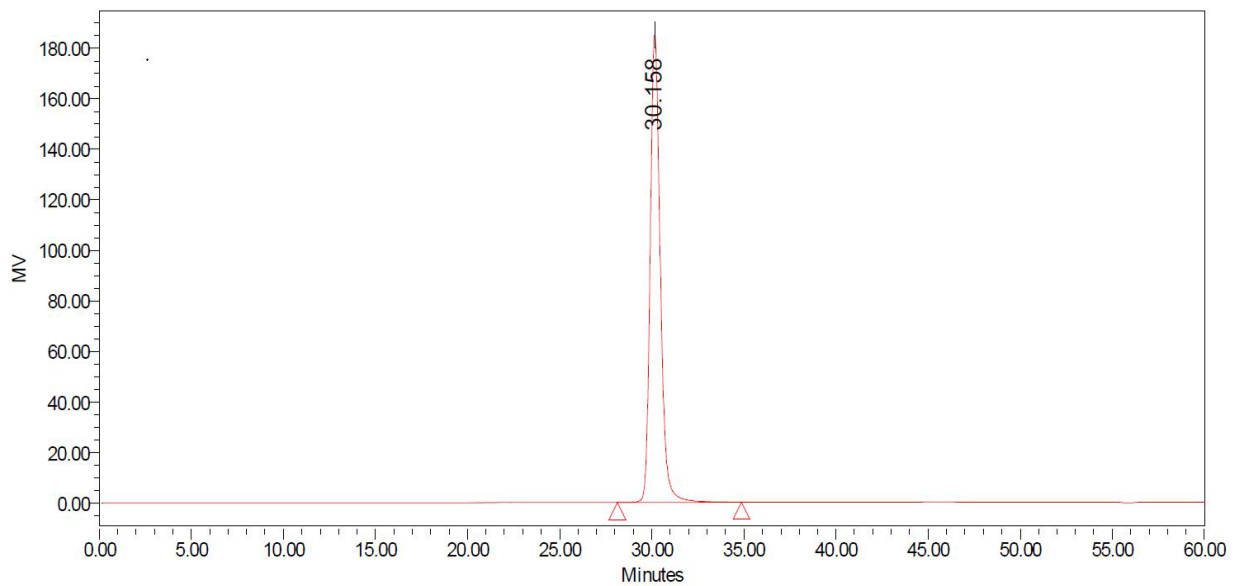
Column: 2 x Tosoh TSK-GEL G2500 PWXL (7.8 x 300 mm) plus guard column (7.8 x 35 mm)

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



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

