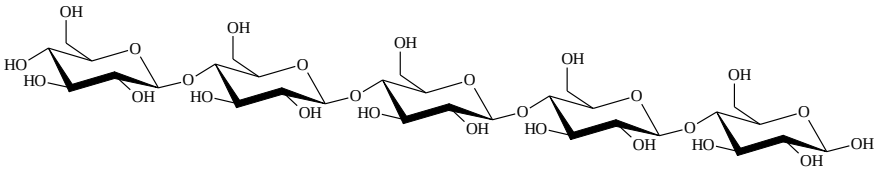
Cellopentaose (Lot 170605)

O-CPE-50MG **08/17**

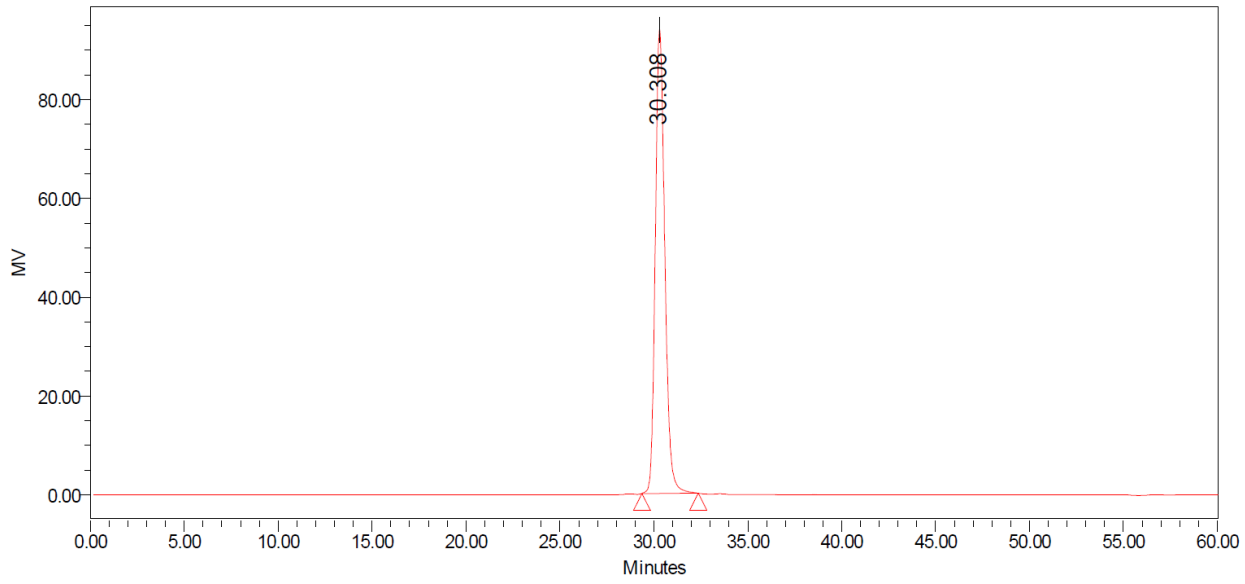
CAS: **2240-27-9**
Molecular Formula: $C_{30}H_{52}O_{26}$
MW: **828.7**



PREPARATION:
Prepared by controlled acid hydrolysis of cellulose acetate.

PURITY: > 95% (HPLC)
SOLUBILITY: Soluble in water at ≤ 2 mg/mL

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: dH_2O
Flow rate: 0.5 mL/min
HPLC system: Waters Alliance e2695 Separations Module, Waters 2414 RI detector and Empower v 3 software



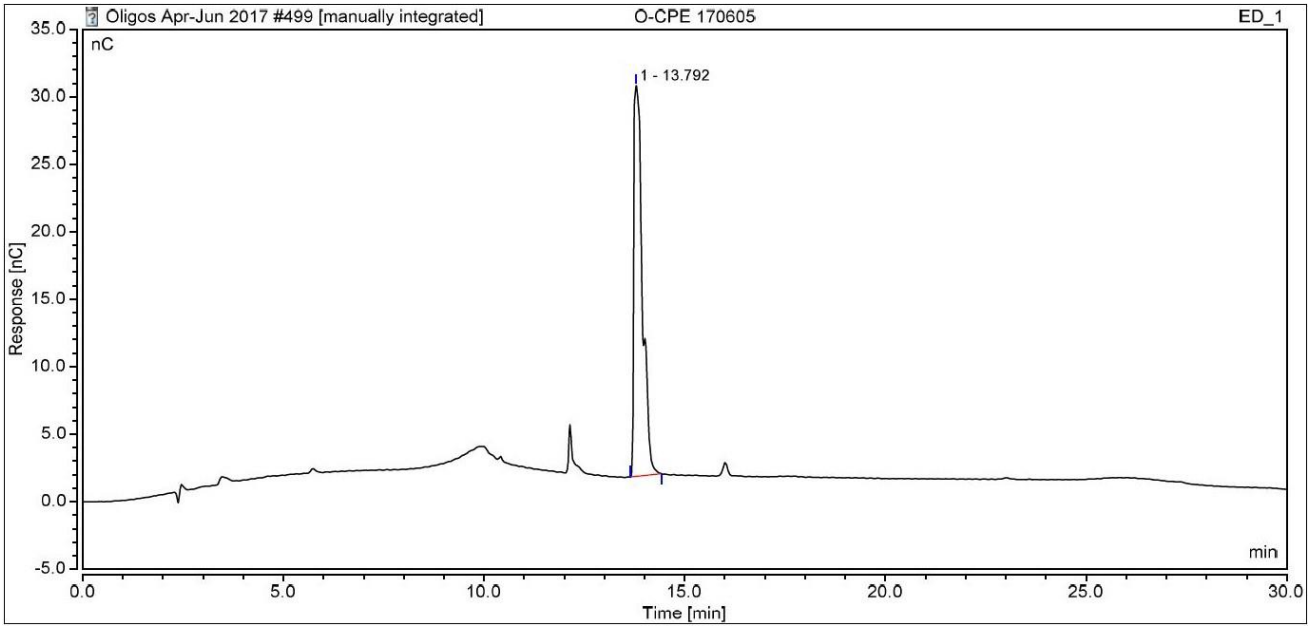
Processed Channel: 410

	Processed Channel	Retention Time (min)	Area	% Area	Height
1	410	30.308	3298331	100.00	93953

HPAEC-PAD:
Column: CarboPac PA200 guard and analytical columns (3 x 250 mm)
Temperature: 20°C
Detector: Au electrode; waveform Carbohydrate, standard quad
Flow rate: 0.4 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 (%)
0	100	0
4	100	0
5	80	20
8	65	35
21	50	50
23	0	100
26	0	100
27	100	0
30	100	0



TLC:
n-Propanol:Nitromethane:H_2O = 5:2:3 (run once) on Merck TLC Silicagel 60F_{254}