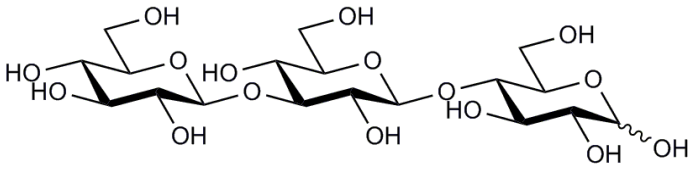
3^2-β-D-Glucosyl-cellobiose (Lot 150803)

O-BGTRIA **01/16**

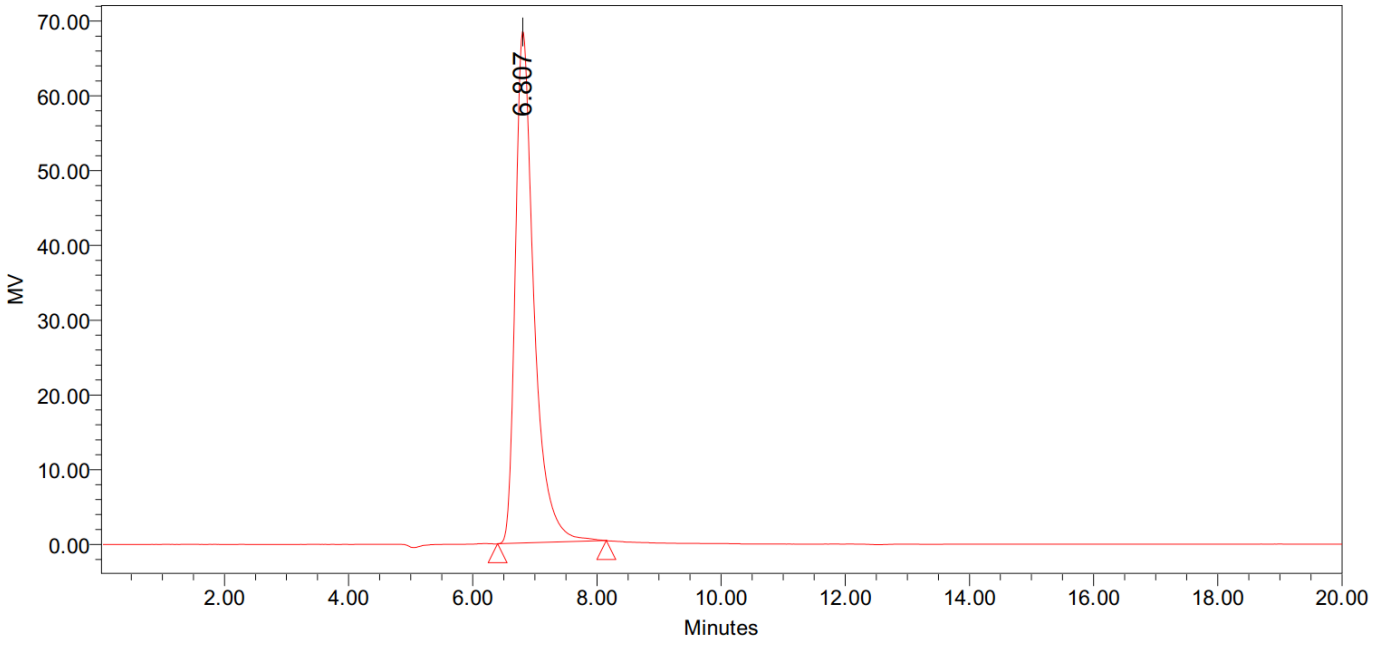
Synonym: Glucosyl-(1→3)-β-D-Cellobiose, 1,3:1,4-β-Glucotriose A
CAS: 32581-38-7
Molecular Formula: $C_{18}H_{32}O_{16}$
MW: 504.4



PREPARATION:
Prepared by enzymic hydrolysis of barley β-glucan.

PURITY: > 95%

HPLC:
Column: Waters SugarPak I (6.5 x 30 cm)
Temperature: 90oC
Mobile phase: dH2O with disodium calcium EDTA (50 mg/L) [Sigma Cat No. ED2SC]
Flow rate: 0.5 mL/min
HPLC System: Waters Breeze system, Waters 2410 RI detector and Empower v2 software



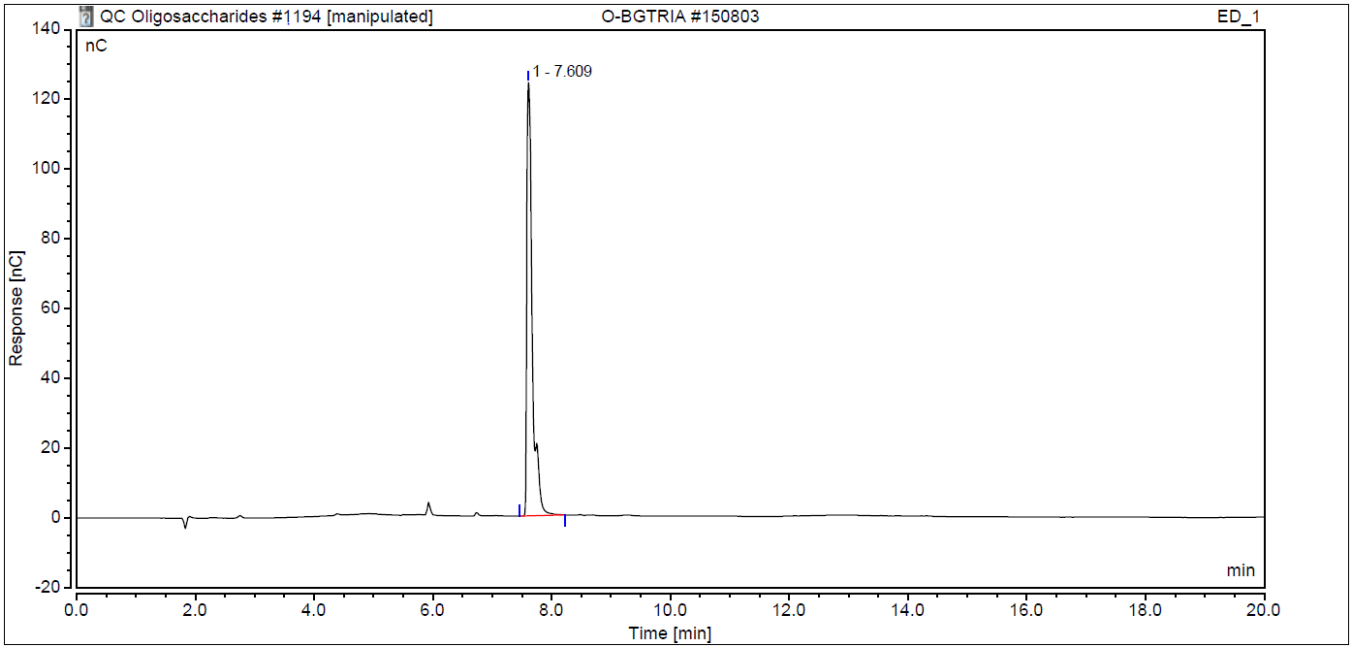
Peak Results

	Name	RT	Area	% Area	Height	% Height
1		6.807	1421705	100.00	68541	100.00

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 (%)
0	100	0
5	55	45
9	30	70
10	0	100



TLC:
n-Propanol : Nitromethane : Water in the ratio 7:1:2 (run once) on Merck TLC Silicagel $60F_{254}$