



3²-β-D-Cellobiosyl-cellobiose + 3³-β-D-Glucosyl-celotriose (Lot 151204)

O-BGTETC

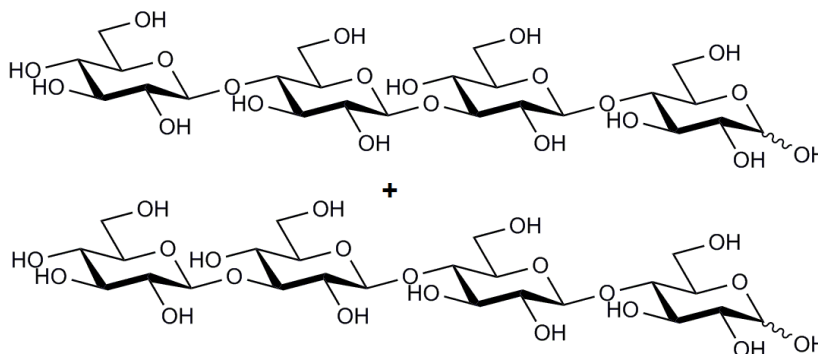
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Synonym: Cellobiosyl-(1→3)-β-D-Cellobiose + Glucosyl-(1→3)-β-D-Celotriose;
1,3:1,4-β-D-Glucotetraose C + 1,3:1,4-β-D-Glucotetraose A

CAS: 103762-93-2; 58484-04-1

Molecular Formula: C₂₄H₄₂O₂₁

MW: 666.6



PREPARATION:

Prepared by controlled enzymic hydrolysis of Barley β-glucan.

PURITY: > 95% [3²-β-D-Cellobiosyl-cellobiose (~ 80%) : 3³-β-D-Glucosyl-celotriose (~ 20%)]

HPLC:

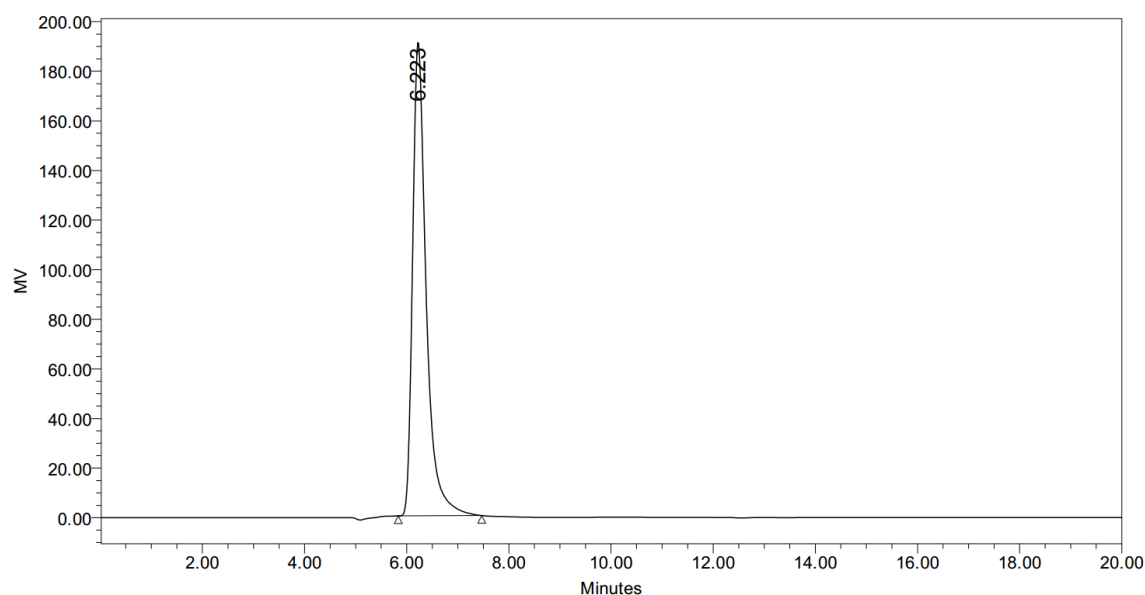
Column: Waters SugarPak I (6.5 x 30 cm)

Temperature: 90°C

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 v 2 software.



	RT	Area	% Area	Height
1	6.223	3523263	100.00	191060

HPAEC-PAD:

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

Temperature: 30°C

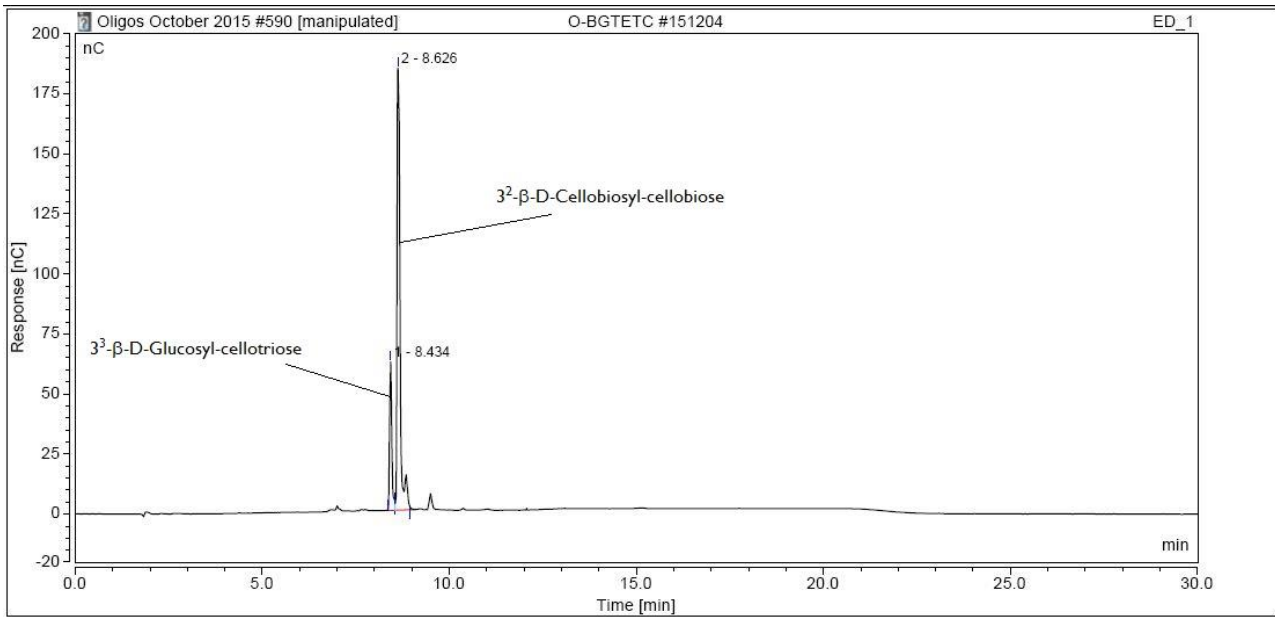
Detector: Au electrode; waveform Carbohydrate, standard quad

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:Ethanol:H₂O = 7:1:2 (run once) on Merck TLC Silicagel 60F₂₅₄

