

2-CHLORO-4-NITROPHENYL- β -(1,3:1,4)-GLUCOTETRAOSIDE (Lot 1505AL3-142a)

O-CNPBG4

05/15

Synonym: 2-Chloro-4-nitrophenyl β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -(1 \rightarrow 3)- β -D-glucopyranoside

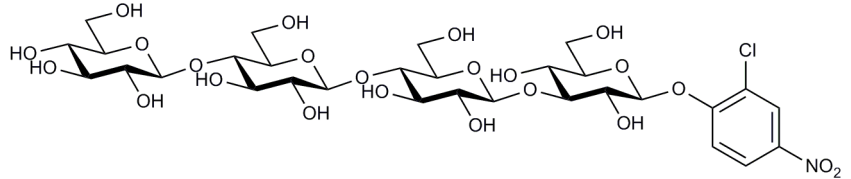
CAS: N/A

Molecular

Formula: C₃₀H₄₄ClNO₂₃

MW: 822.1

Purity: > 97%



Application: Suitable for the assay of lichenase. Please see the data sheet for the analogous substrate 2-chloro-4-nitrophenyl- β -(1,3:1,4)-glucotetraoside (cat. no. **O-CNPBG3**) for suitable assay conditions.

HPLC:

Column :- Acclaim 120 C18, 3 μ m (3 x 150 mm)

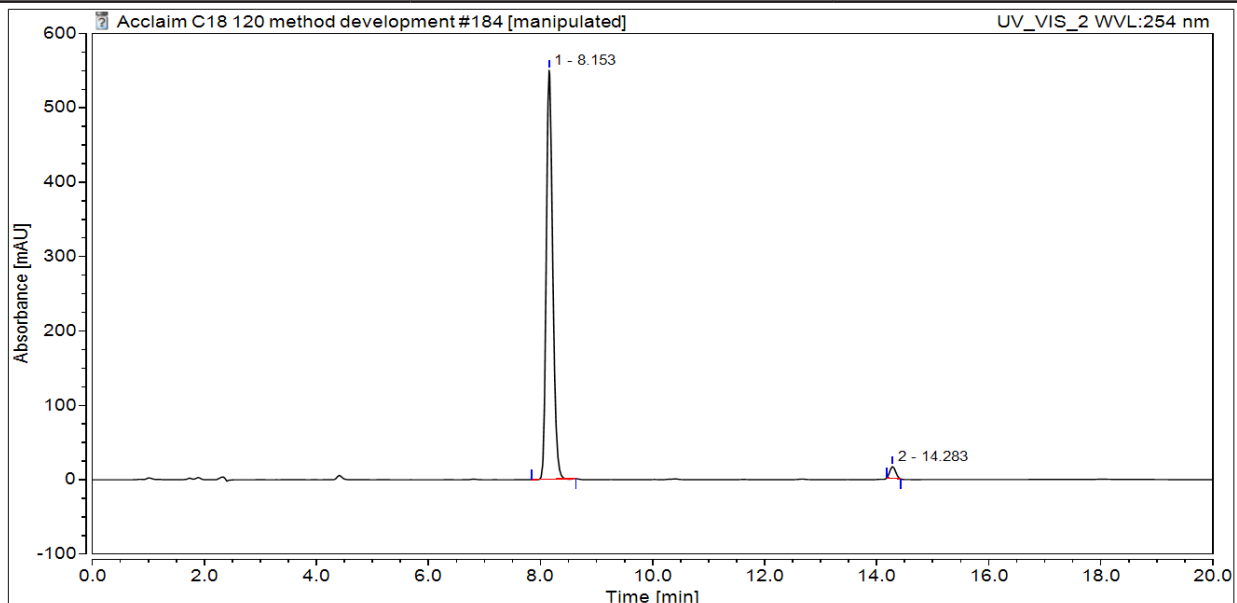
Temperature :- 55°C

Flow rate :- 0.4 mL/min (Eluent gradient shown below)

Detector :- UV (256 nm)

HPLC System :- Thermofisher U3000 Ultimate and Chromeleon v 7.0 software

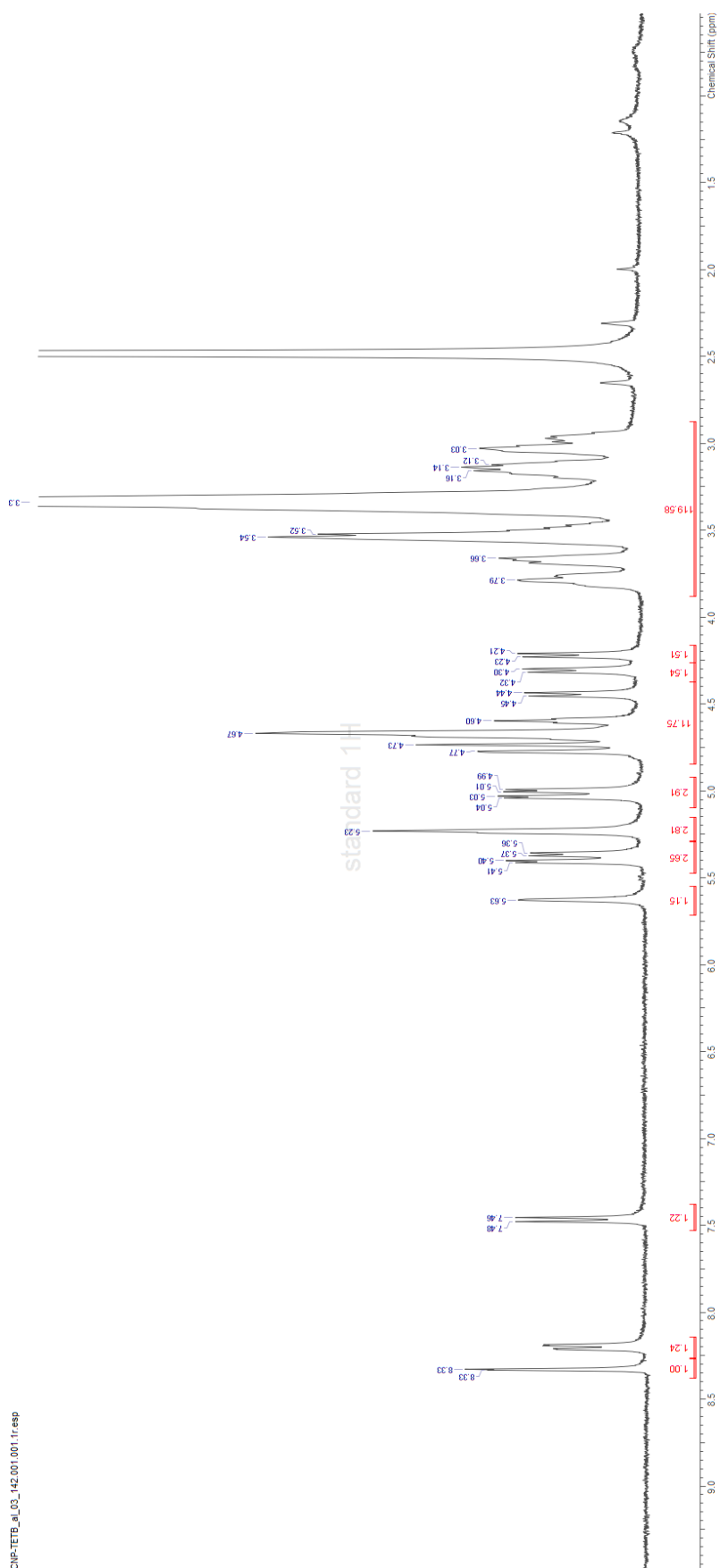
Time (min)	H ₂ O (%)	CH ₃ CN (%)
0	85	15
1	85	15
13	75	25
15	85	15
20	85	15



No.	Retention Time min	Area mAU*min	Relative Area %
1	8.153	72.959	97.46
2	14.283	1.901	2.54

¹H-NMR:

A Bruker Avance 400 was employed for ¹H NMR spectra (400.13 MHz). Resonances, δ , are in ppm units downfield from an internal reference in C₂D₆SO ($\delta_{\text{H}} = 2.50$).



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