

## 2-CHLORO-4-NITROPHENYL- $\beta$ -(1,3:1,4)-GLUCOTETRAOSIDE (Lot 1505AL3-142a)

**O-CNPBG4**

05/15

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

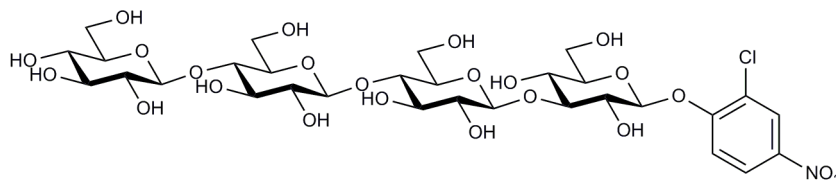
**CAS:** N/A

**Molecular**

**Formula:** C<sub>30</sub>H<sub>44</sub>ClNO<sub>23</sub>

**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- $\beta$ -(1,3:1,4)-glucotetraoside (cat. no. **O-CNPBG3**) for suitable assay conditions.

### HPLC:

Column :- Acclaim 120 C18, 3  $\mu$ m (3 x 150 mm)

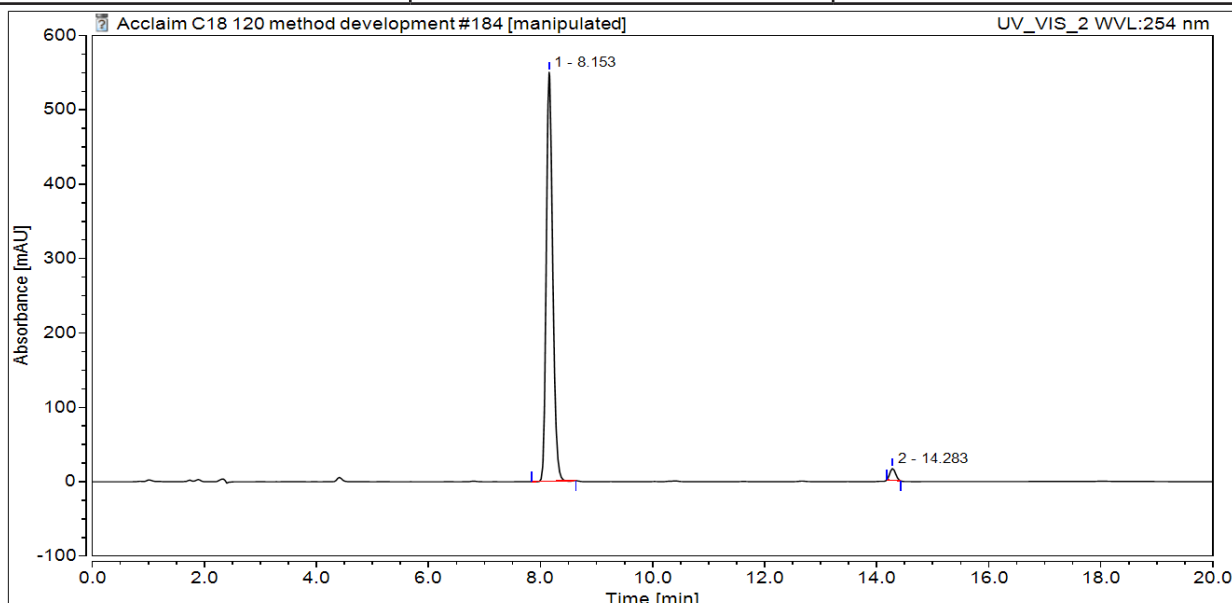
Temperature :- 55°C

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

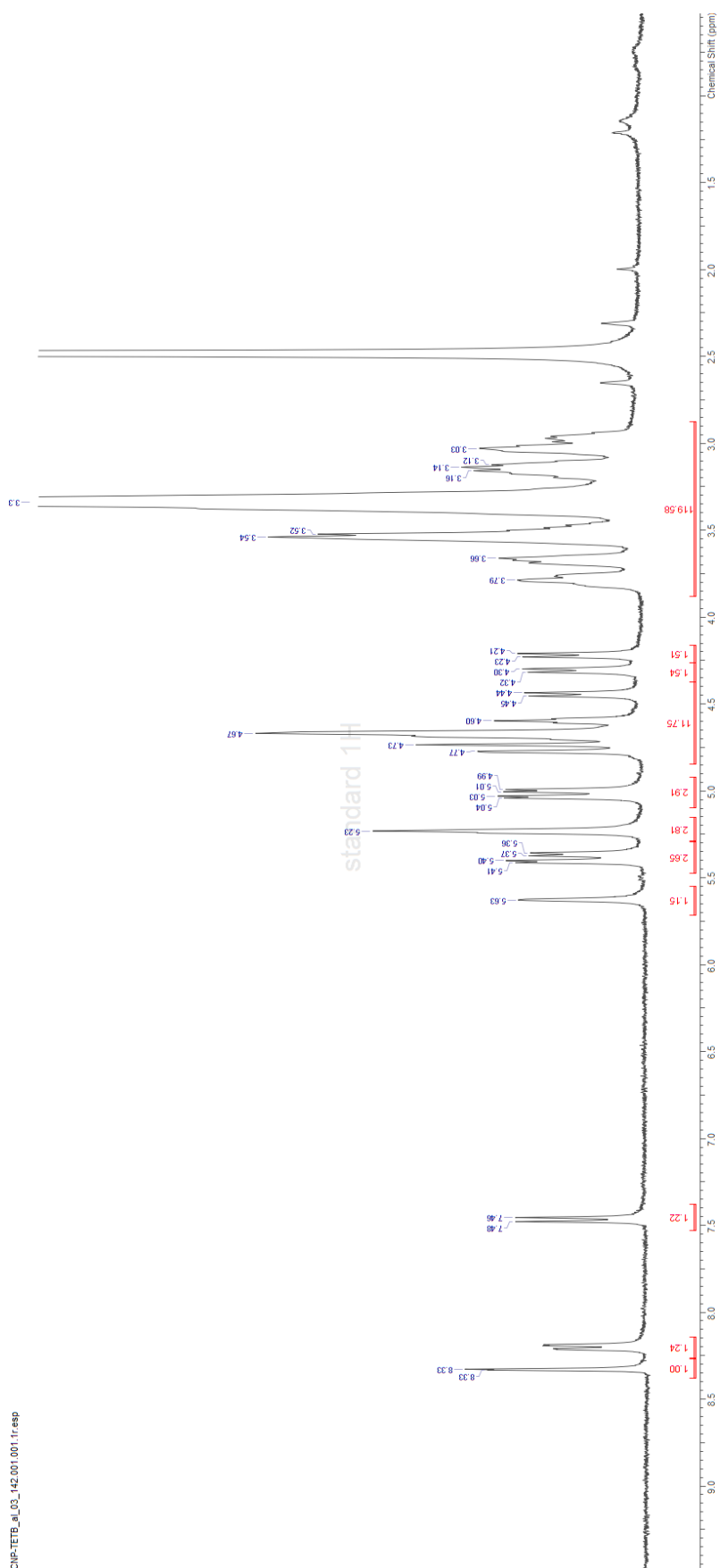
Time (min)	H <sub>2</sub> O (%)	CH <sub>3</sub> CN (%)
0	85	15
1	85	15
13	75	25
15	85	15
20	85	15



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

### **<sup>1</sup>H-NMR:**

A Bruker Avance 400 was employed for <sup>1</sup>H NMR spectra (400.13 MHz). Resonances,  $\delta$ , are in ppm units downfield from an internal reference in C<sub>2</sub>D<sub>6</sub>SO ( $\delta_{\text{H}} = 2.50$ ).



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