

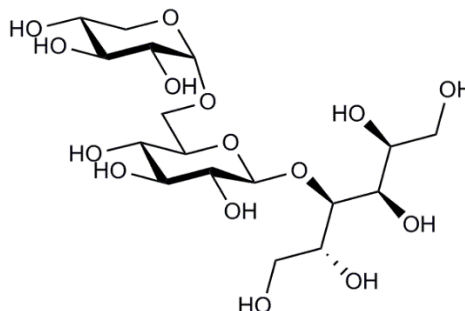


XYLOSYL-CELLOBIOSE (REDUCED) (Lot 110903a)

O-XCBIR

09/19

Molecular Formula: $C_{17}H_{32}O_{15}$
MW: 476.4
CAS: 129865-02-7



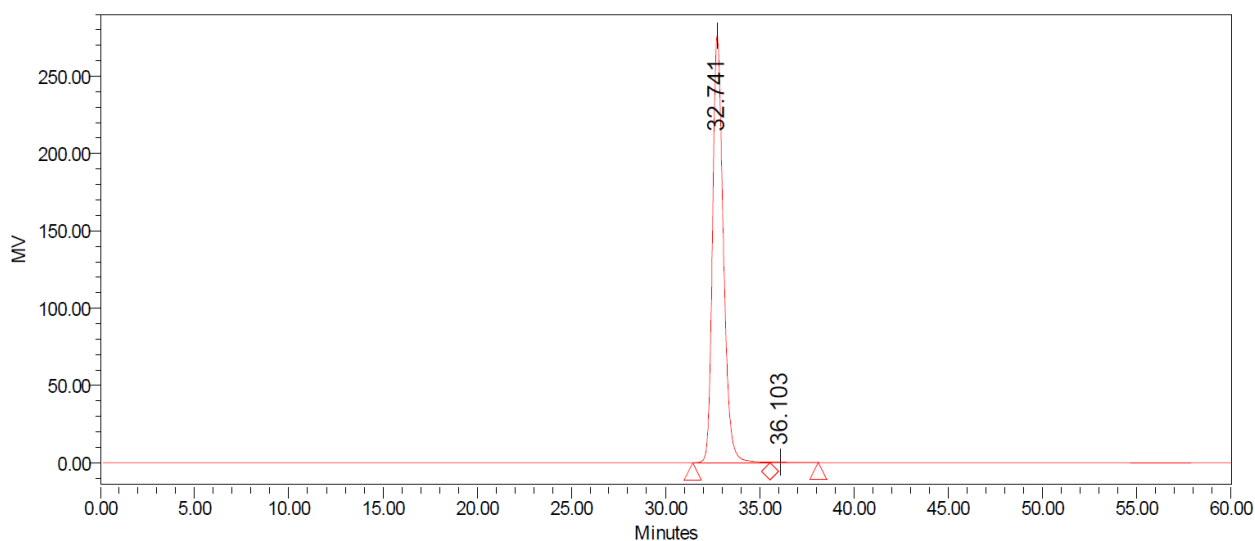
PREPARATION:

Prepared by controlled enzymic hydrolysis of xyloglucan

PURITY: > 95% (HPLC)

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 | 32.741 | 11030396 | 99.80 | 276268 |
| 2 | 410 | 36.103 | 21917 | 0.20 | 320 |

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 (%) in 100mM NaOH |
|------------|-----------------|--------------------------------|
| 0 | 100 | 0 |
| 14 | 75 | 25 |
| 15 | 50 | 50 |
| 25 | 30 | 70 |
| 26 | 0 | 100 |

