MANNOTETRAOSE (Lot 170504)

O-MTE

MW: 666.6
CAS: 51327-76-5

PREPARATION:
Prepared by controlled enzymic hydrolysis of mannan.

PURITY: > 95%

HPLC:
Column: 2 x Tosoh TSK-GEL G2500 PWXL (7.8 x 300 mm) plus guard column (7.8 x 35 mm).
Temperature: 80°C
Mobile phase: dH2O
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

<table>
<thead>
<tr>
<th>Processed Channel</th>
<th>Retention Time (min)</th>
<th>Area</th>
<th>% Area</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 410</td>
<td>30.969</td>
<td>5837012</td>
<td>100.00</td>
<td>158217</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>100 mM NaOH (%)</th>
<th>120 mM NaOAc (%) in 100mM NaOH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>14</td>
<td>85</td>
<td>15</td>
</tr>
<tr>
<td>14.5</td>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>

TLC:
n-Propanol:Nitromethane:H₂O = 7:1:2 (run once) on Merck TLC Silicagel 60F₂₅₄