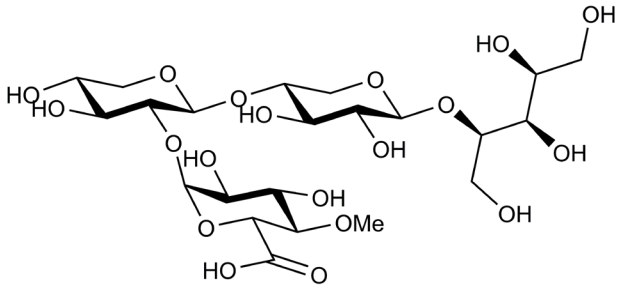
ALDOTETRAURONIC ACID (TERMINAL SUBSTITUTION, BOROHYDRIDE REDUCED) (Lot 161001)

O-UXXR **06/17**

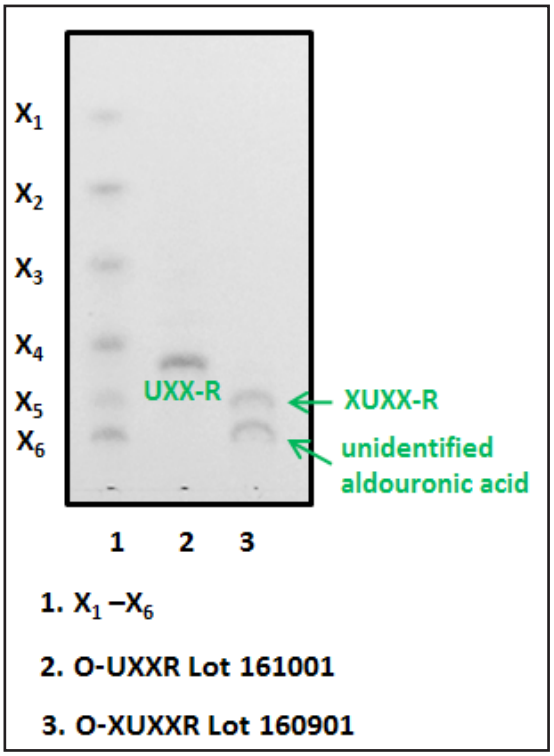
Synonym: **2^3-(4-O-Methyl-D-glucuronyl)-α-D-xylotriitol**
Molecular Formula: **$C_{22}H_{38}O_{19}$**
MW: **606.5**
CAS: **1242443-16-8**



PREPARATION:
Prepared by the controlled enzymatic hydrolysis of 4-*O*-methyl-glucuronoxylan, followed by chromatographic removal of neutral oligomers and borohydride reduction.

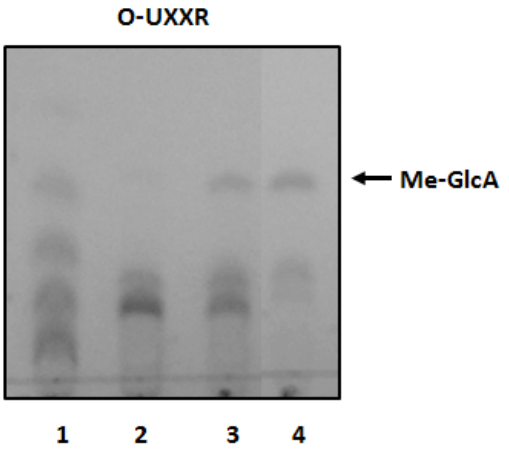
PURITY: > 90% (TLC)

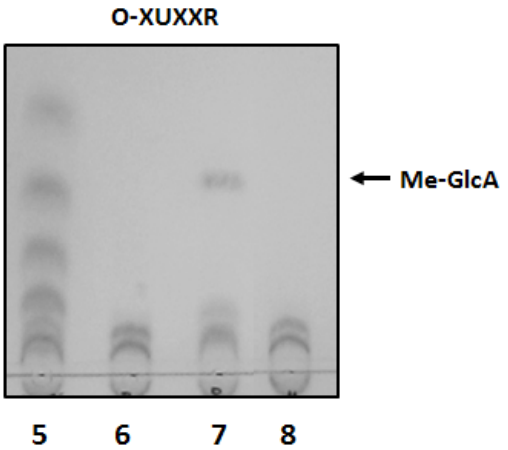
TLC:
Butanol:Acetic Acid:H_2O = 2:1:1 (run once) on Merck TLC Silicagel $60F_{254}$



SUBSTRATE SPECIFICITY:

This oligosaccharide (UXX-R) is a substrate for the measurement of α-D-glucuronidase from CAZy family GH67. It can be also used for the measurement of α-D-glucuronidases from CAZy family GH115, however the rate of hydrolysis compared to GH67 is reduced.





1. $X_1 - X_6$
2. O-UXXR Lot 161001
3. Action of α-D-glucuronidase (GH115) on O-UXXR
4. Action of α-D-glucuronidase (GH67) on O-UXXR
5. $X_1 - X_6$
6. O-XUXXR Lot 160901
7. Action of α-D-glucuronidase (GH115) on O-XUXXR
8. Action of α-D-glucuronidase (GH67) on O-XUXXR