

## 6<sup>3</sup>-α-D-GLUCOSYL-MALTOTRIOSE

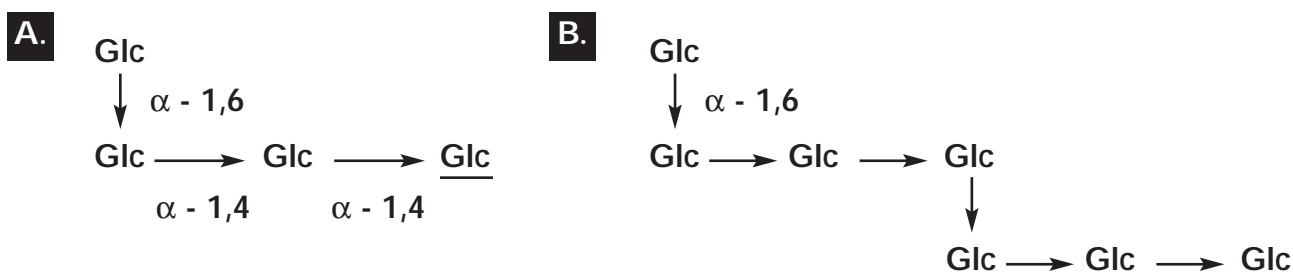
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6<sup>3</sup>-α-D-Glucosyl-maltotriose is prepared by hydrolysis of pullulan with pullulanase and β-amylase. The reaction products are separated chromatographically. The purified oligosaccharide has been structurally characterised using enzymic and chemical techniques. This oligosaccharide is a useful substrate in the characterisation of the action patterns of starch degrading enzymes such as amyloglucosidase and α-glucosidases.

### OLIGOSACCHARIDES:

**A** = GM<sub>3</sub> = 6<sup>3</sup>-α-D-glucosyl maltotriose.

**B** = GM<sub>3</sub>M<sub>3</sub> = 6<sup>3</sup>-α-D-glucosyl maltotriosyl-maltotriose.



### THIN LAYER CHROMATOGRAPHY OF OLIGOSACCHARIDES:

**Solvent:** n-Propanol-ethanol-water (7:1:2; developed once for 8 h).

**Sample:** 10 µlitres of a 10 mg/ml solution.

**Spot Development:** 5% sulphuric acid in ethanol spray, followed by incubation at 110°C for about 5 min.

