



# ORGOREVIEW

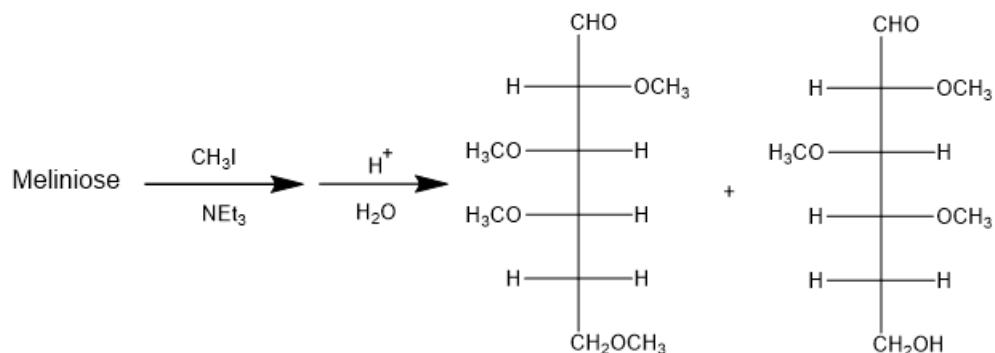
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Melibiose is a disaccharide used for chemical communication between various insects. Deduce the structure of melibiose from the following information.

- Acid hydrolysis of melibiose yields an equal mixture of D-galactose and D-glucose.
- Melibiose is hydrolyzed by  $\alpha$ -galactosidase enzymes, but not by  $\beta$ -galactosidase enzymes. A galactosidase enzyme hydrolyzes an  $\alpha$ -glycosidic bond of D-galactose specifically.
- Melibiose is a reducing sugar and reacts with sodium borohydride.
- Methylation of melibiose followed by hydrolysis of the glycosidic bonds yields the two derivatives shown below.



Todd's Test Prep  
2255 Glades Road  
Suite 324A  
Boca Raton, Florida 33431  
E-mail: [help@orgoreview.com](mailto:help@orgoreview.com)

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