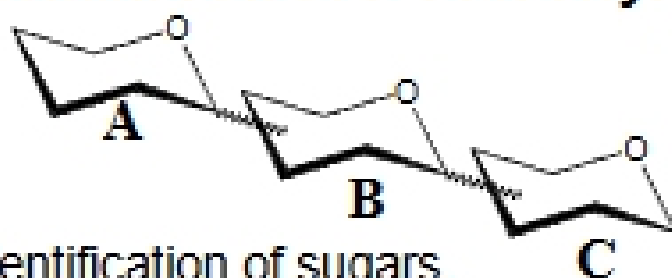


**BCMB8020**  
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**Requirements for Structural  
Determination of a Carbohydrate**



- Identification of sugars.
- Stereochemistry of each sugar.
- Types of linkages.
- Types of ring structures.
- Anomeric configuration of each sugar.
- Sequence of the different sugar residues.

## **Methods to Determine Carbohydrate Structure**

**The structural characterization of carbohydrates & glycoconjugates is challenging due to the complexity & diversity of carbohydrate structure. To completely characterize an oligo- or polysaccharide the following must be done/determined:**

## Methods to Determine Carbohydrate Structure

1. **Isolate** “pure” oligo-, polysaccharide, glycoconjugate
2. **Cleave** the carbohydrate(s) from the aglycone
3. Determine **glycosyl residue composition**

