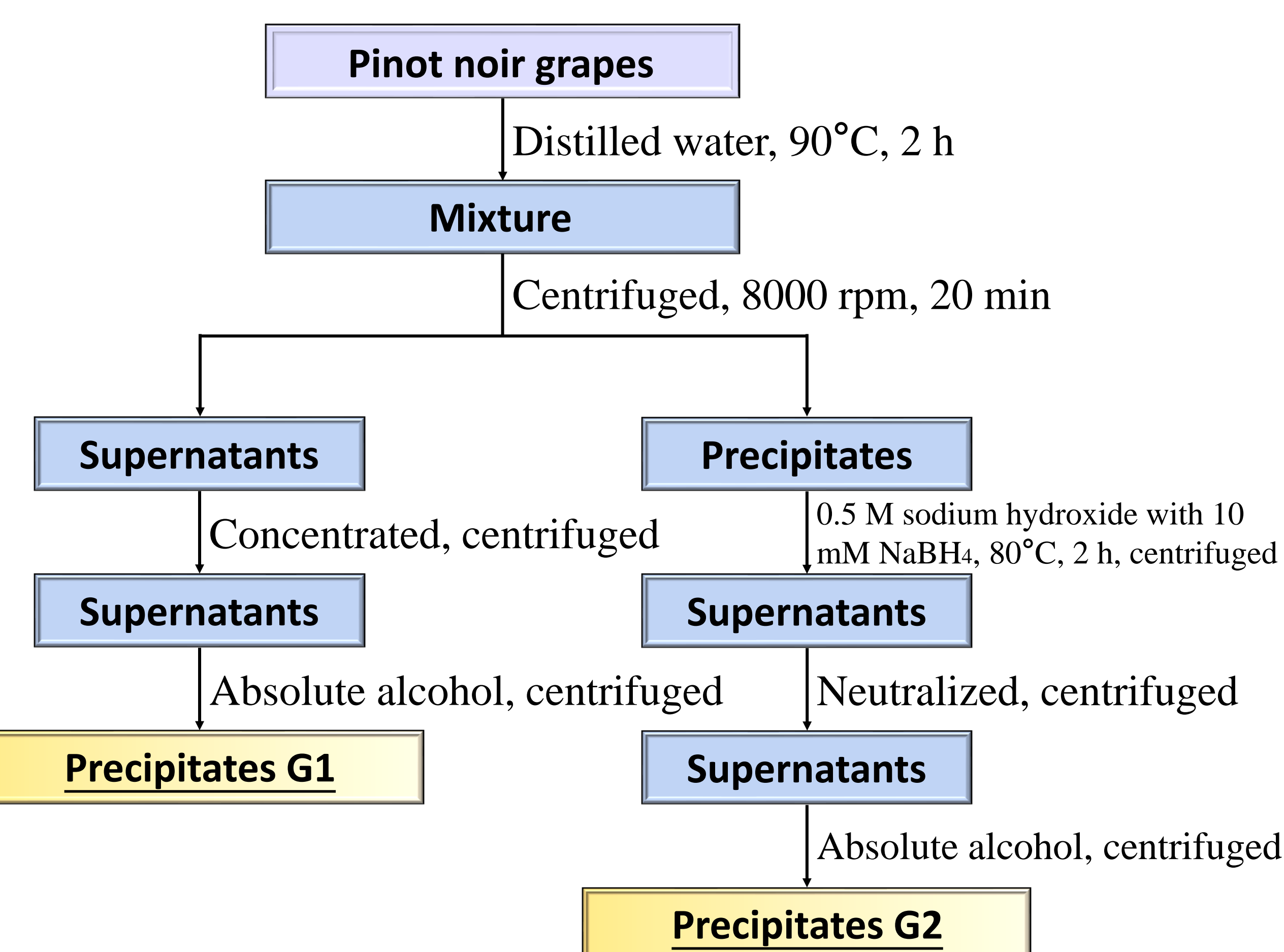


Introduction

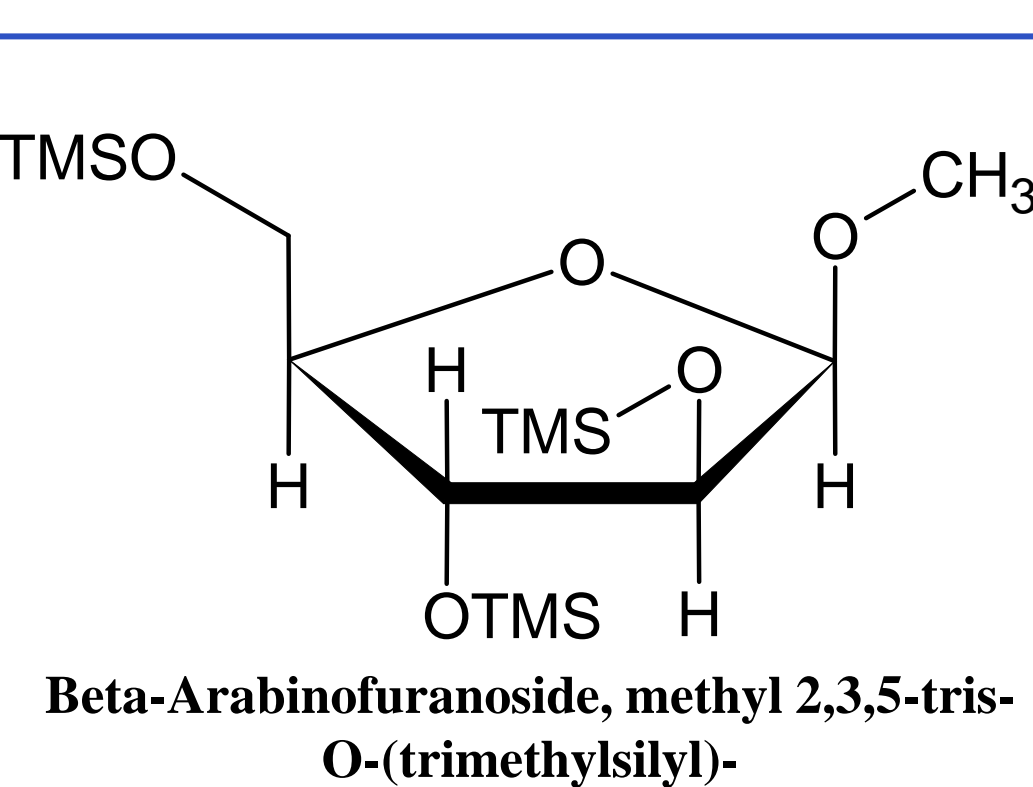
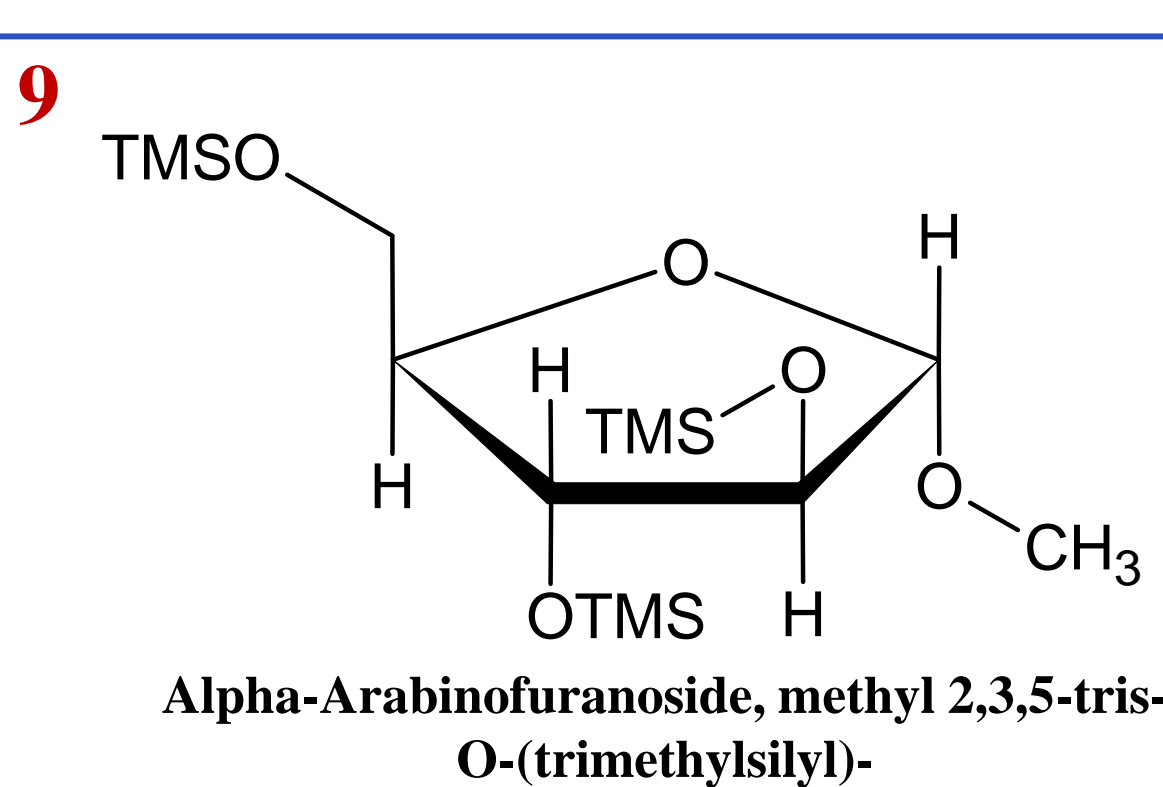
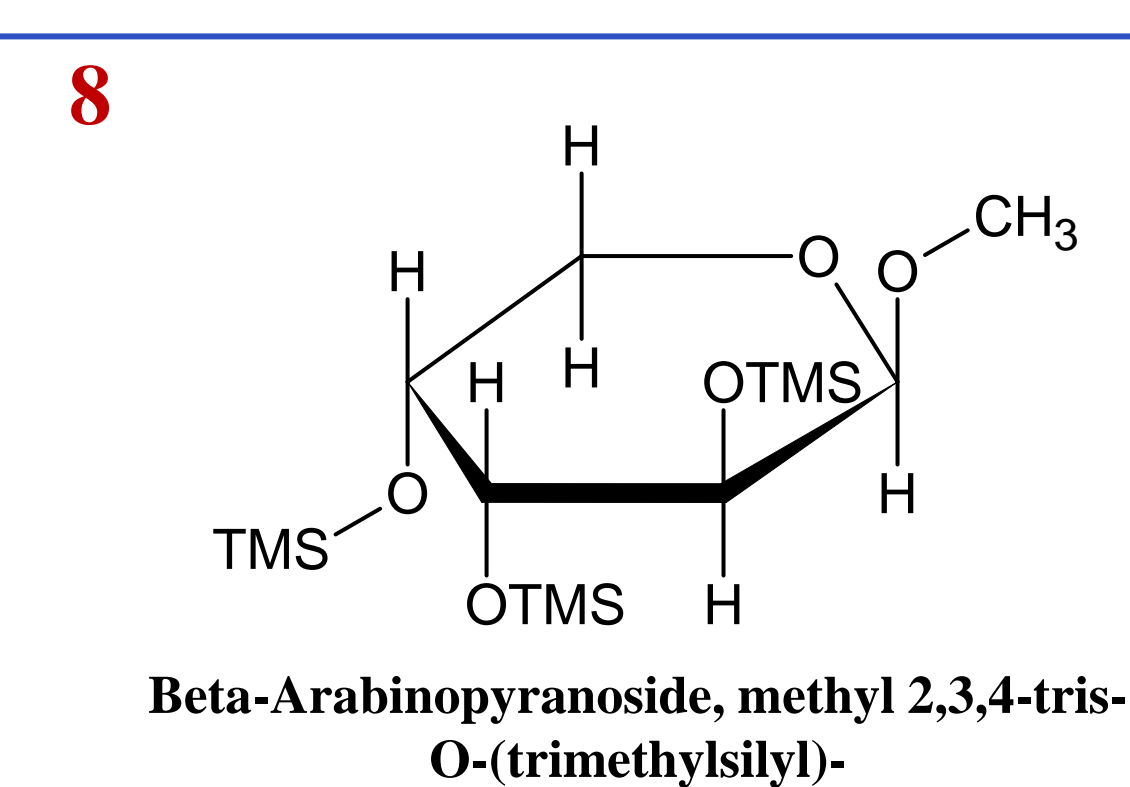
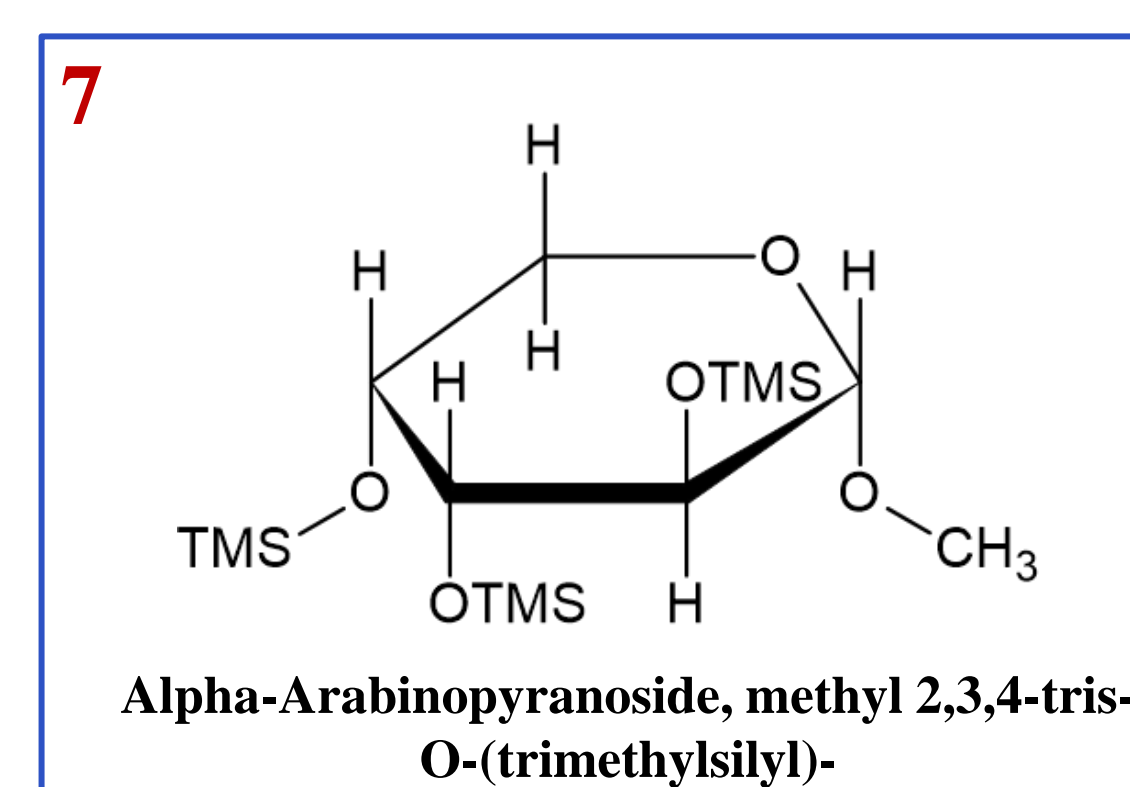
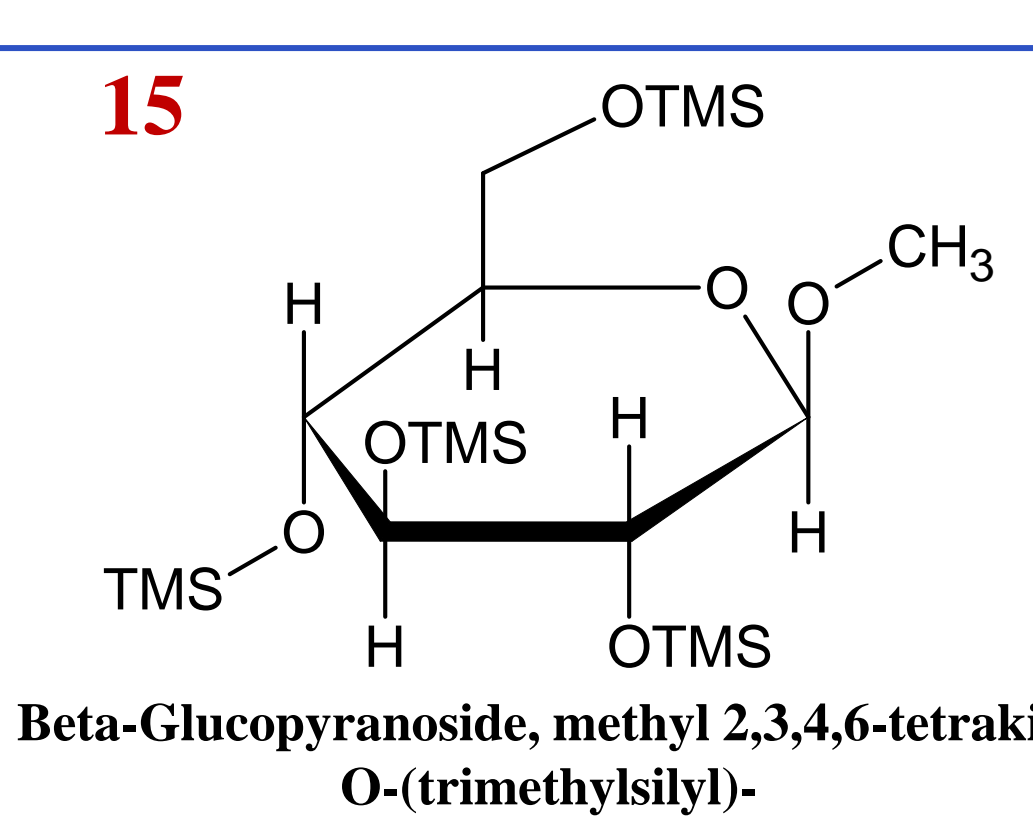
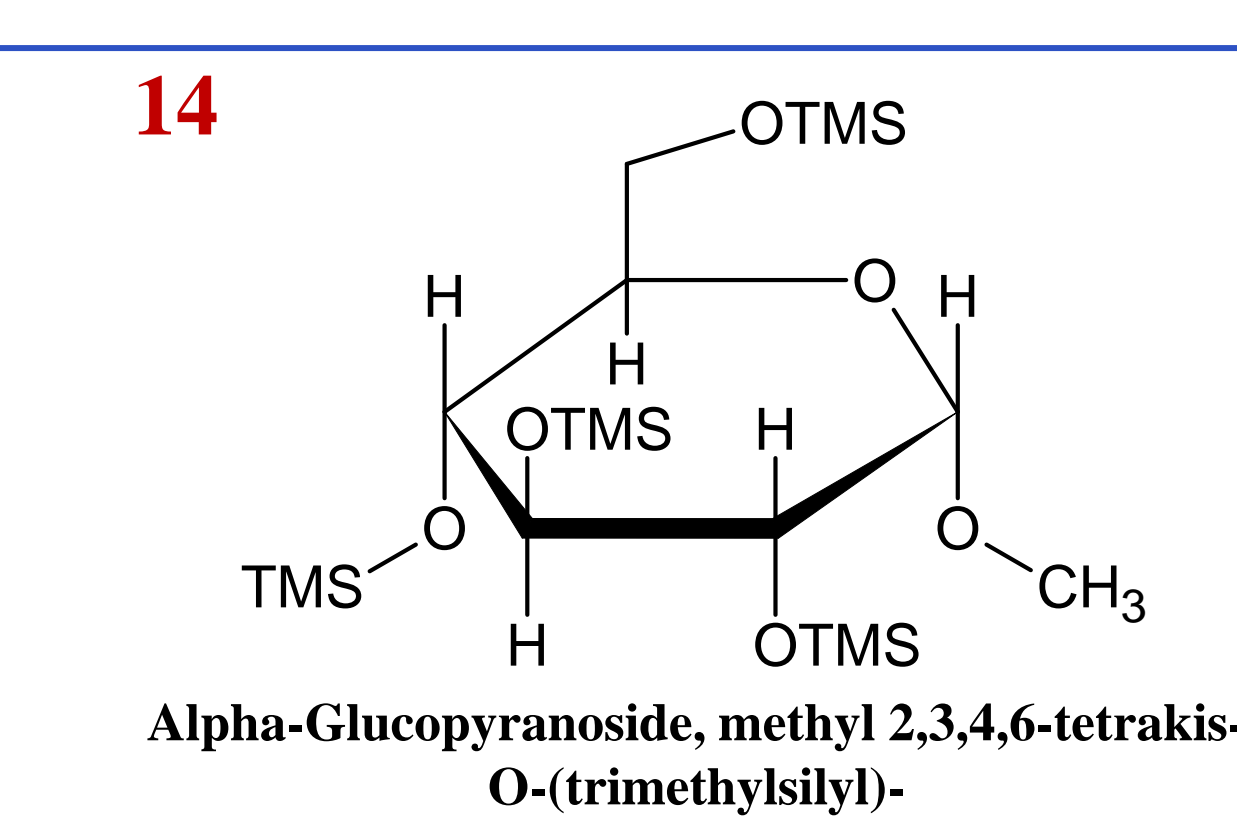
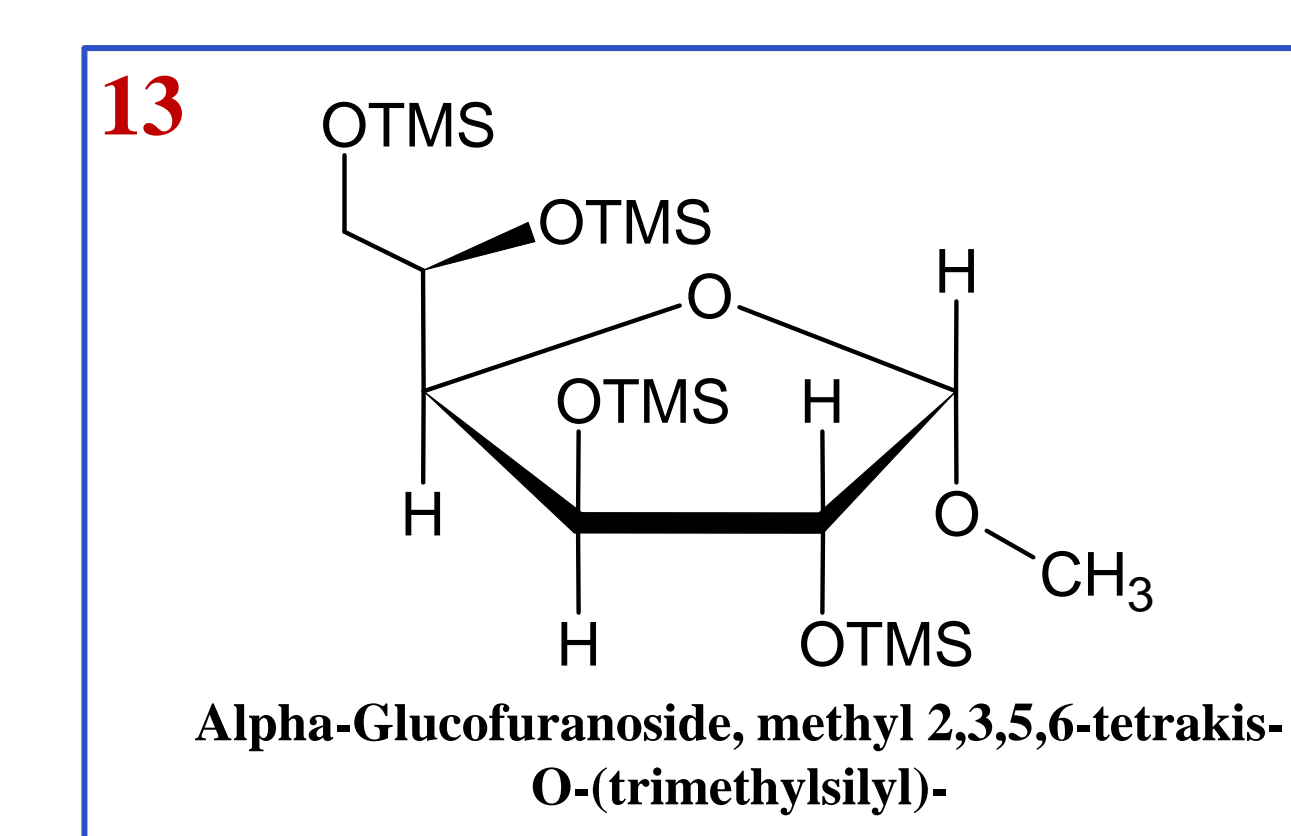
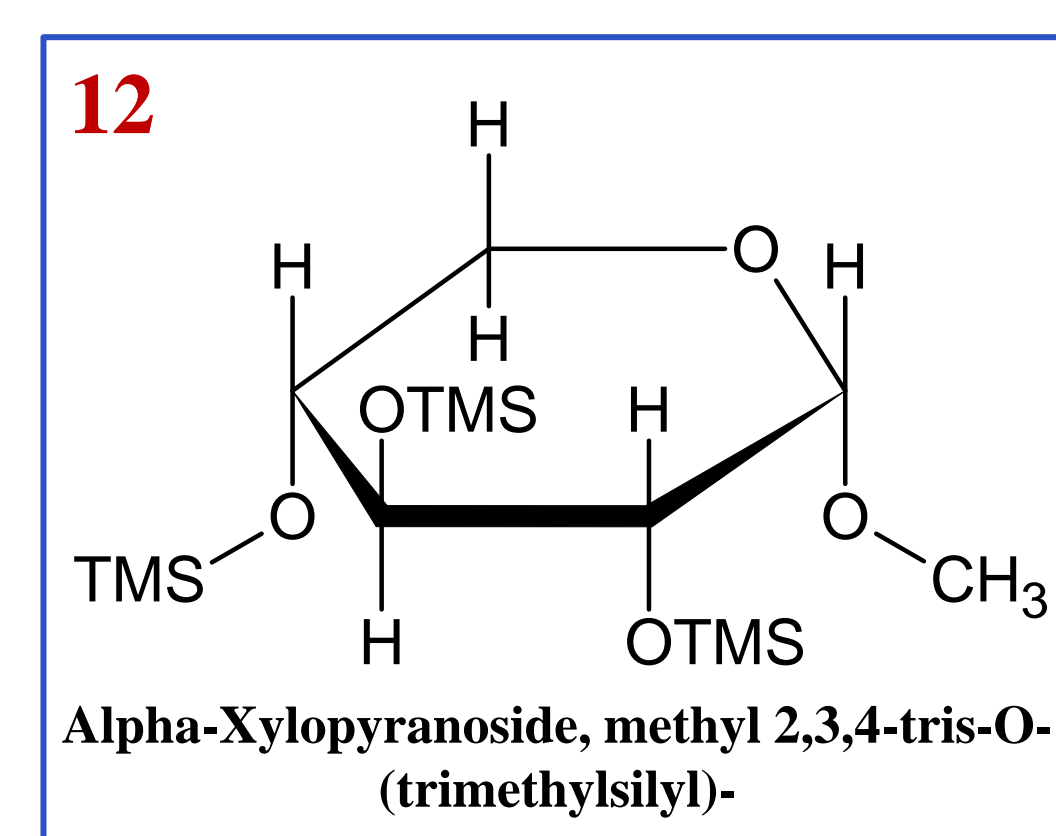
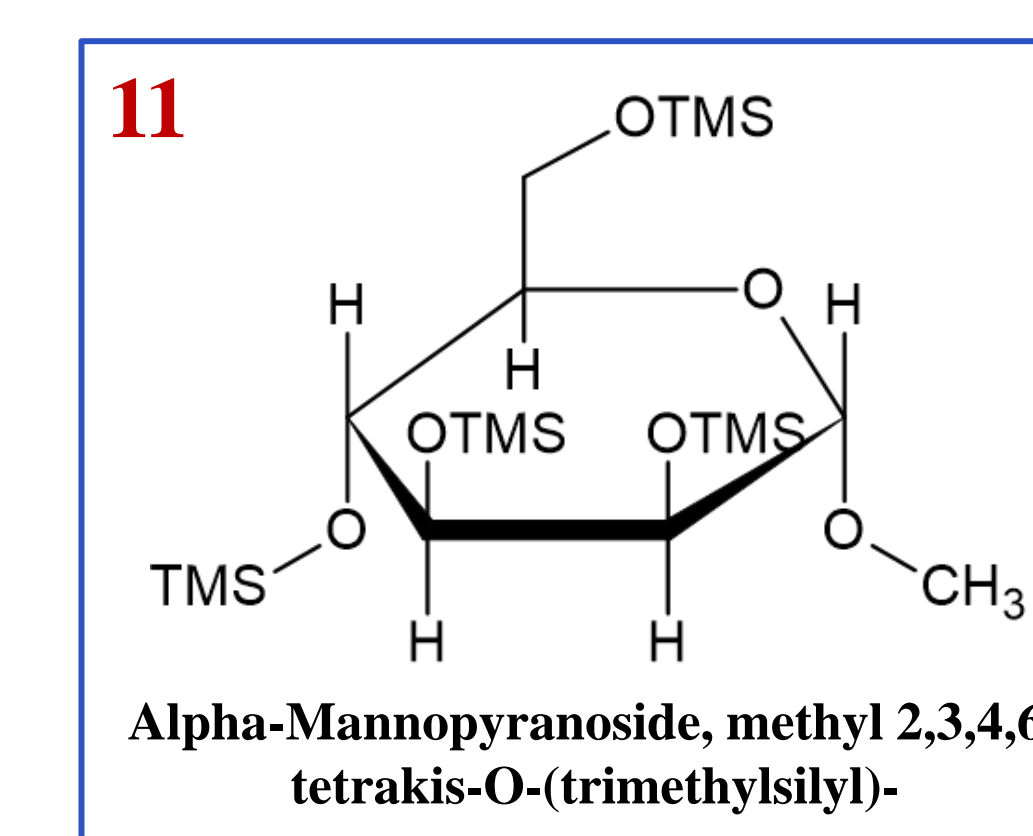
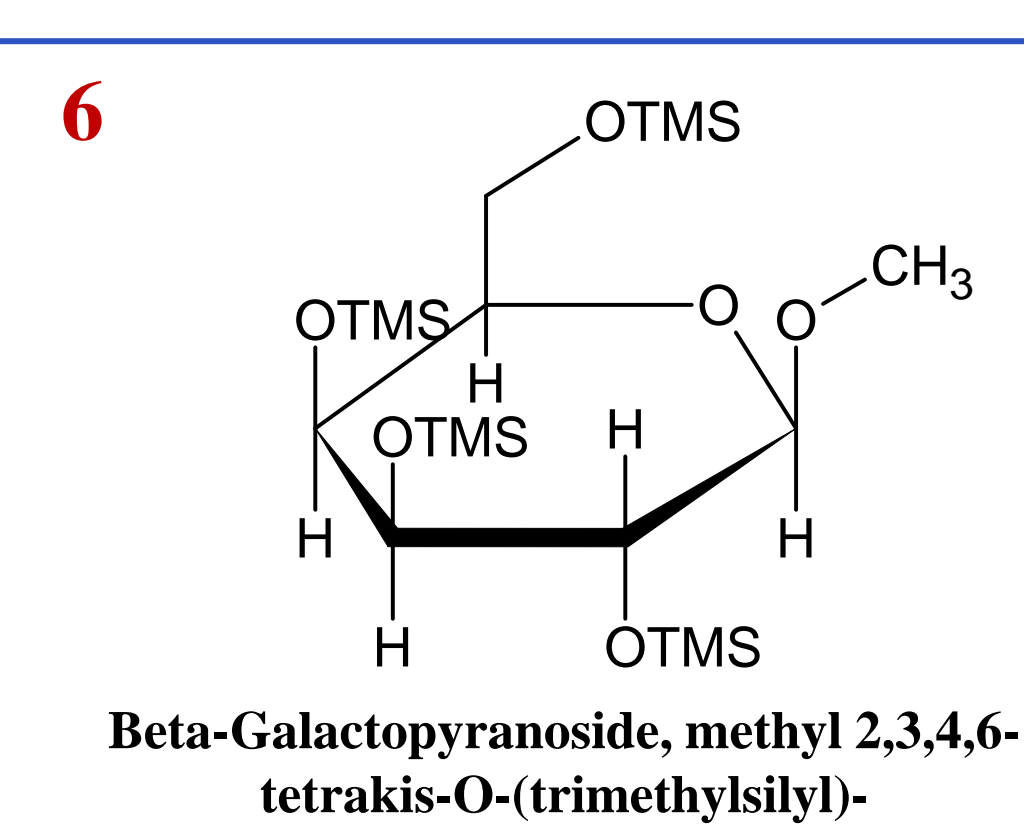
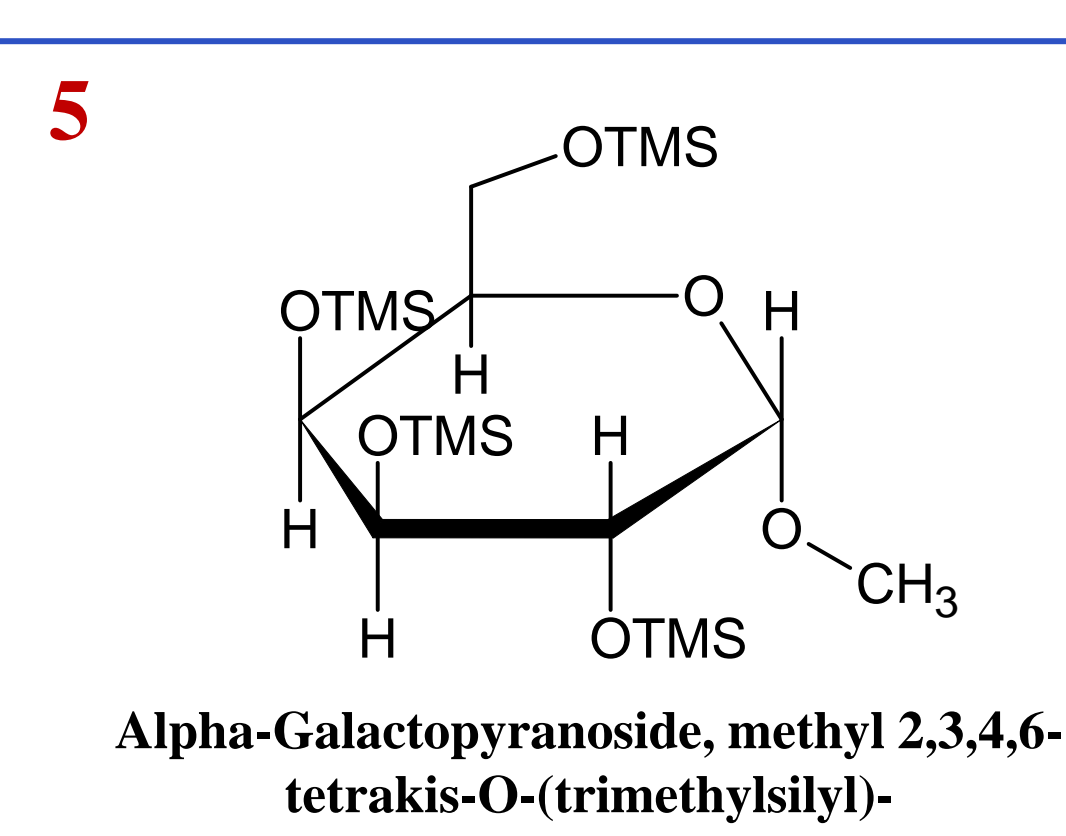
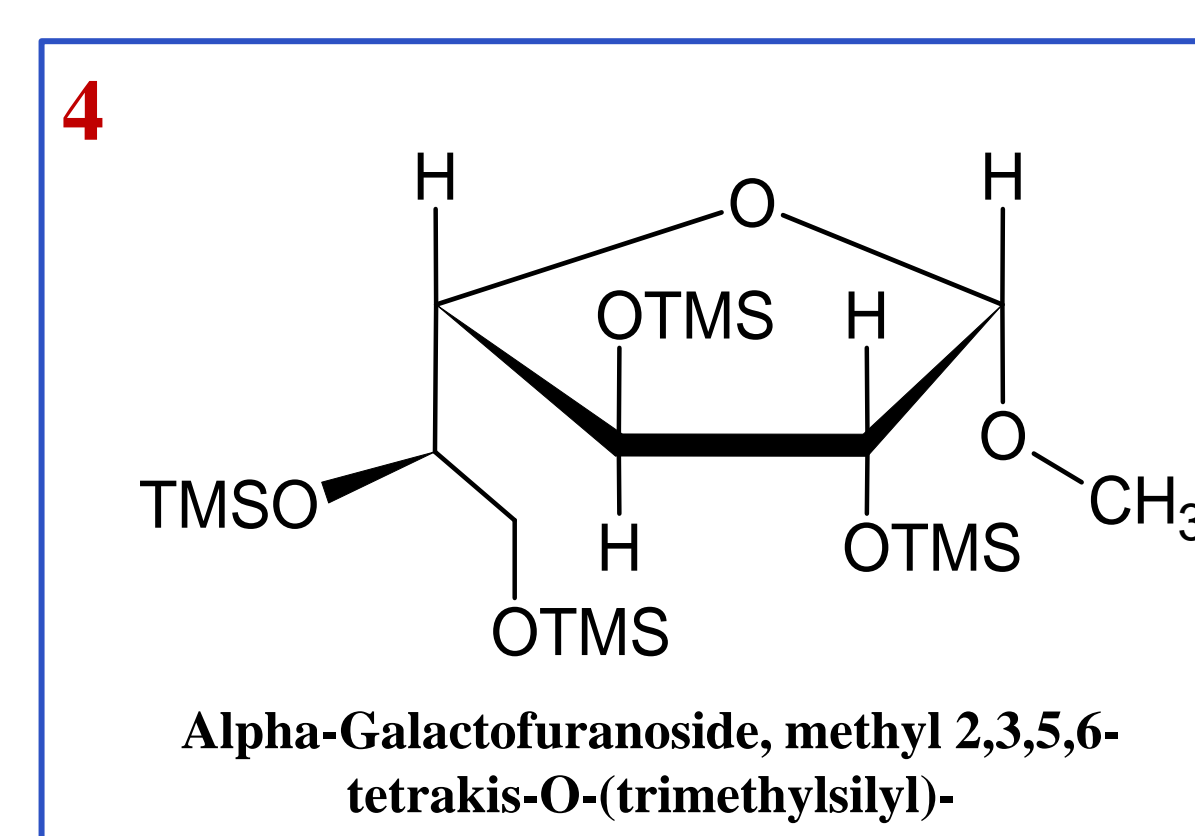
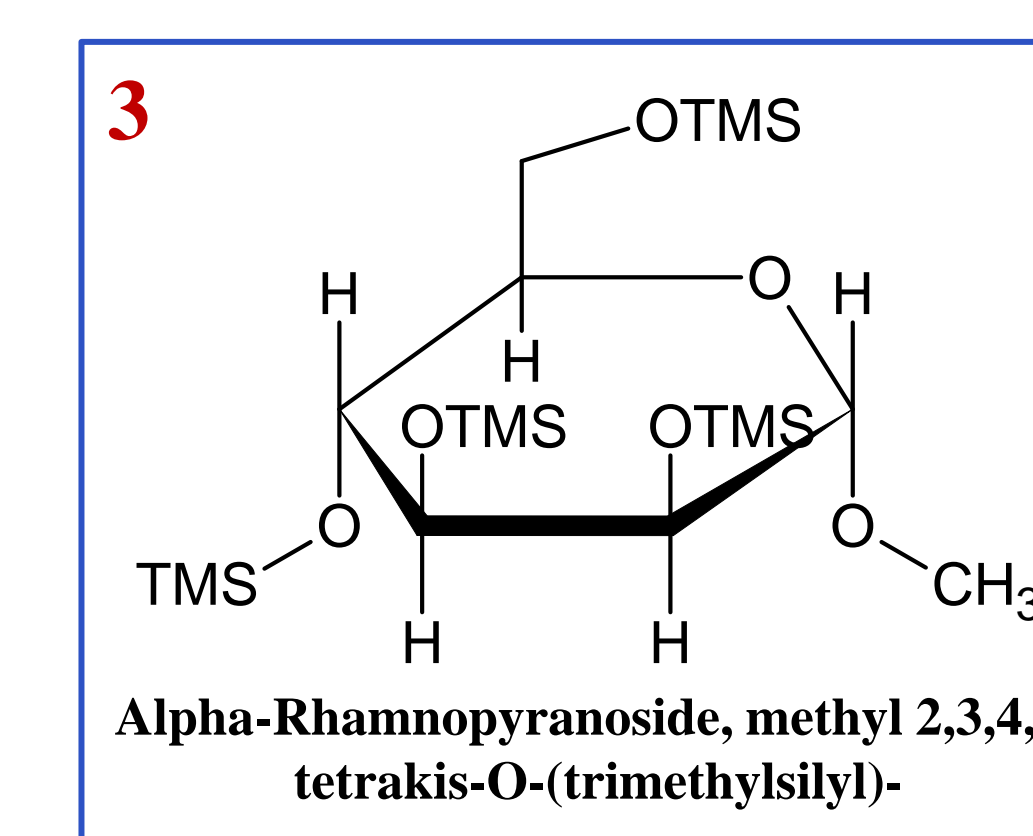
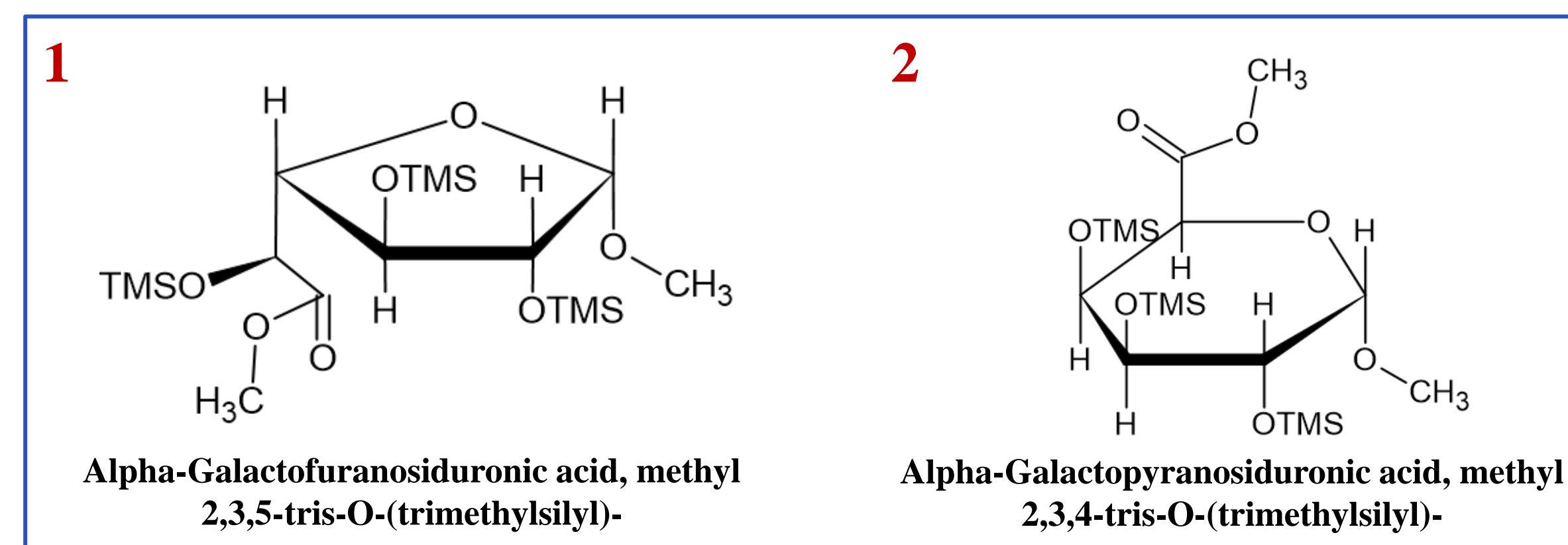
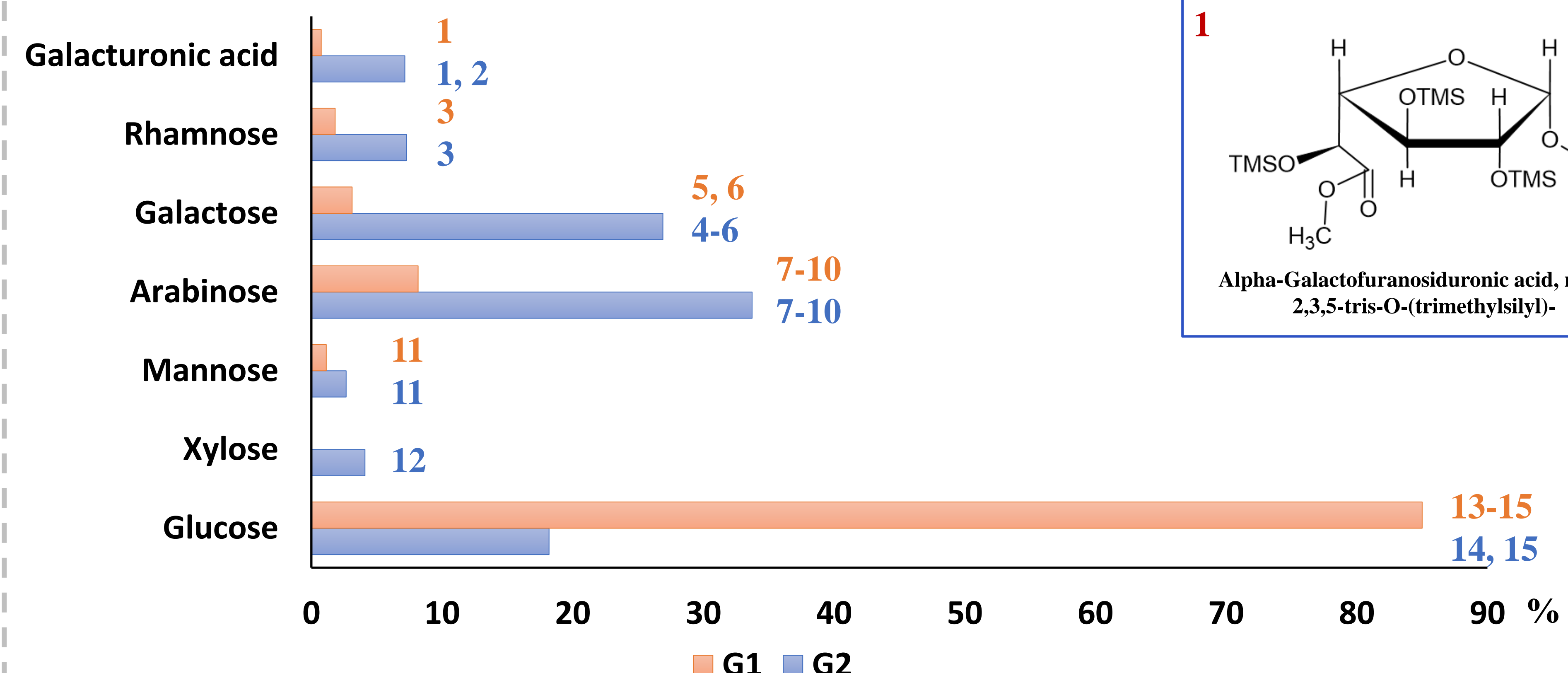
- Wine mouthfeel is an important quality attribute of red wine. It is postulated that polysaccharides from grapes and yeasts could play an important role in wine mouthfeel.
- Understanding the structural characterization of polysaccharides from different sources is extremely important for wine organoleptic quality.

Grape Polysaccharides Extraction and Preliminary Purification

- Hot water extraction method and alkaline extraction method were used to extract two grape polysaccharides.
- The obtained grape polysaccharides fractions were further washed by absolute alcohol for three times.



Results

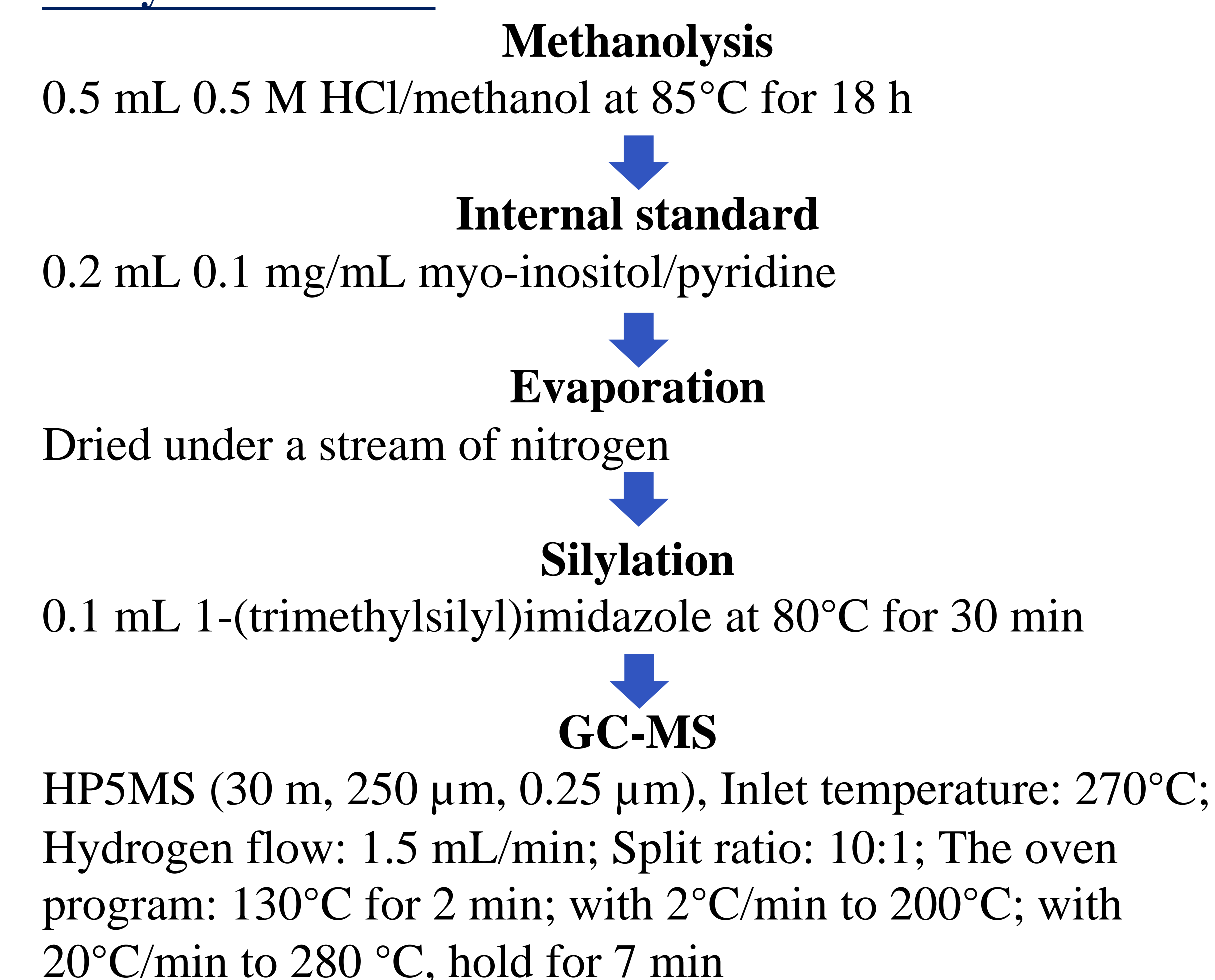


Grape Polysaccharides Analysis

Sugar standards:

- Glucose, xylose, mannose, arabinose, galactose, rhamnose, fucose, glucuronic acid and galacturonic acid were used as sugar standards.

Analytical method:



Conclusions

- Arabinose, galactose, glucose, rhamnose, galacturonic acid, xylose, and mannose were the major sugars identified in grape polysaccharides.
- G1 was composed mainly of glucose (85%) and arabinose (8%).
- G2 was composed primarily of arabinose (34%), galactose (27%) and glucose (18%).

Thanks to...



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