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Determination of Structure of Glycosides

The structure of Glycosides is first determined by degradation and the synthesis.

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Degradation:- The Glycoside is hydrolysed with dilute acid and the components, i.e. sugar and aglycone parts are separated by paper chromatography. The size of the ring of the sugar is established by 'Common Method', i.e. 'Complete methylation followed' by hydrolysis. The configuration of the glycosidic linkage is determined by the enzyme hydrolysis, in general emulsion hydrolysis. The β -glycosides while maltase hydrolyses α - of the sugar unit if same di- or tri-saccharide, specific enzyme are used to

effect → only partial hydrolysis of the glycoside so as to identify the oligosaccharide.