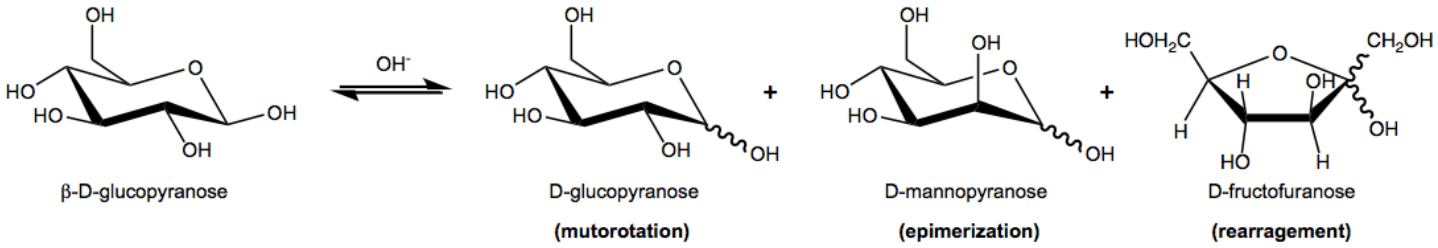
CONCEPT: MONOSACCHARIDES – ALDOSE-KETOSE REARRANGEMENT

In basic conditions, monosaccharides will undergo a multitude of *tautomerizations* and *isomerizations*.

- The most profound of these is the ability of aldoses and ketoses to reversibly rearrange
    - □ Also known as the ***Enediol Rearrangement*** or ***Lobry de Bruijn–van Ekenstein Reaction***
    - □ Proceeds through an *enediol* intermediate

General Reaction:



Mechanism: