





~~glucoside~~

4. -OCH<sub>3</sub> gp present or not by Zaisel method

5. position of -OH, -CO, -CHO

-OCH<sub>3</sub> gp by suitable methods with help of your book like as part flavonoids.

6. possible rings ~~present~~ and with its flavonoid quercetin or other.

7. double bond position confirm by suitable method.

8. glucoside (glucose molecule) is present at position-3C. confirm by help of ~~phenol~~ or anthocyanin flavonoid.

9. It is B-D-glucose or quercetin 3-O-D-glyco

By synthesis or biosynthesis confirm str.

(i) Rutin  $\xrightarrow{\alpha\text{-rhamnosidase}}$  quercetin-3-O-glucose

(ii) Quercetin  $\xrightarrow{\text{AT UGT78D2}}$  quercetin-3-O-glucose

Date 28/05/20

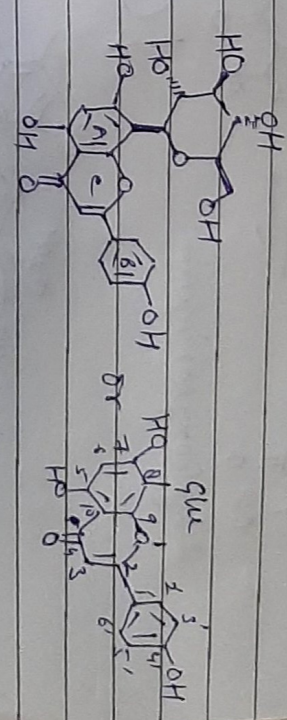
Vitegin

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Vitegin - is an agigenin flavone glucoside a chemical compound found in the position flower, Vitis ~~sp~~ agnus-castus, barba leaves and pearl millet.

Other names - Apigenin-8-C-glucoside

Chemical str:



1. M.P. = C<sub>21</sub>H<sub>20</sub>O<sub>10</sub>

(114 = glucose)

2. -OH gp present by acetylation at position 4, 5, 7-carbon.

or not

3. -OCH<sub>3</sub> gp is not present by negative test by methylation of Zaisel method.

4. Glucoside or glucose present at 8-C position by osazone test

5. Ring present No 8 position

6. double bond position

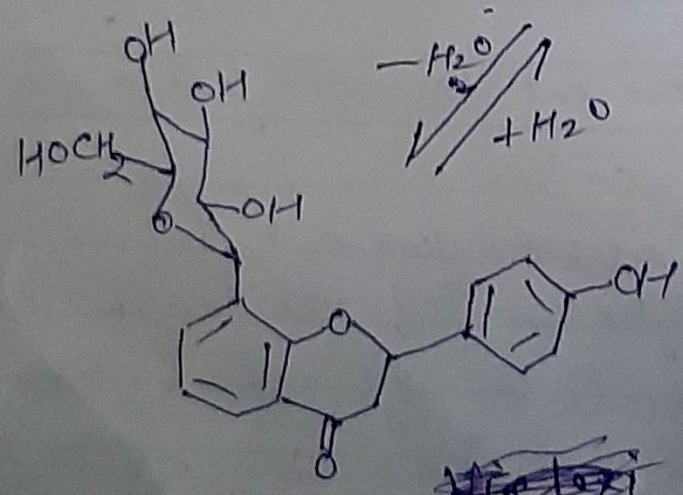
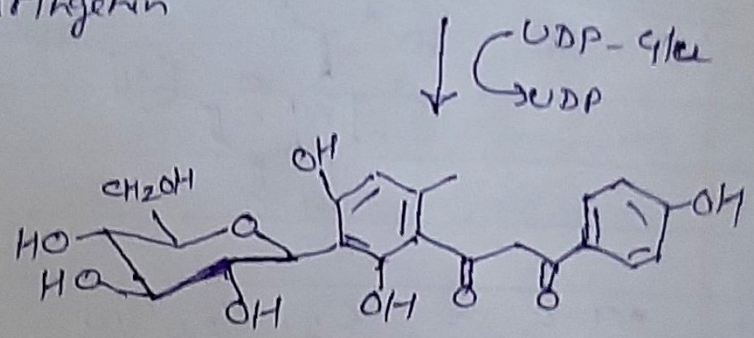
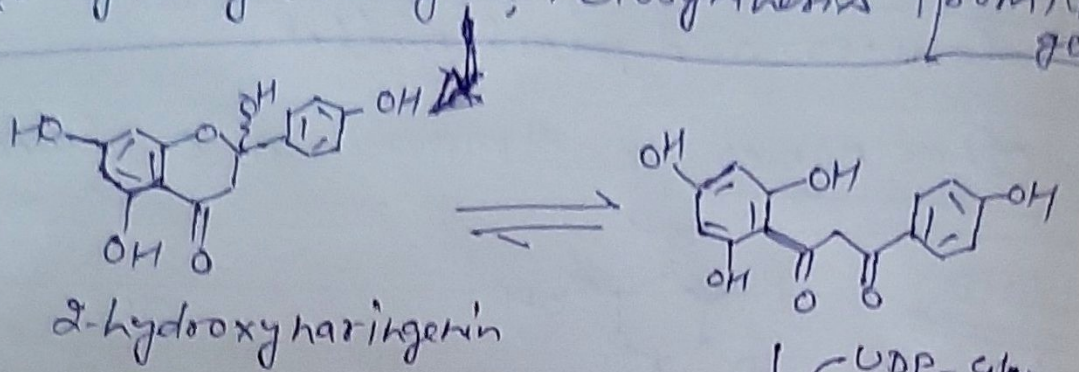
7. double bond position

"In a gentle way, you can shake the world" - Mahatma Gandhi



7.  $\text{CO}$  or  $\text{-CHO}$  gp present or not
8. Synthesis or biosynthesis

2-hydroxyflavone biosynthesis from flavone



~~Vitexin~~  
 Vitexin  
 apigenin 8-c-glucoside

(UDP = Uridine diphosphate  
 glc - Glucoside or Glucose)