

ch-2 (Activity)  
Test of Sugar (Carbohydrate)

\* Aim :- To test presence of sugar in different food items.

\* Materials required :- Food samples, Test tubes, Spoon, Spirit lamp, test tubes holders, droppers, chemicals etc.

Experiment

i) Take some natural honey in a test tube and add a few drops of benedict's solution to the test tube, hit the

Observation

Colour changes to red.

Result.

It contains high amount of sugar

## Experiment

Solution for about a minute.

## Observation

## Result.

ii) Take some glucose (glucon-D) in a test tube, add water and add few drops of benedict's solution and heat it.

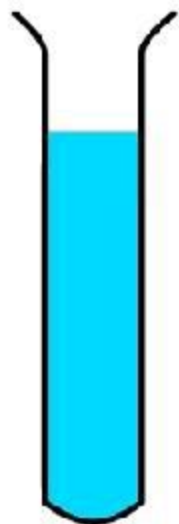
Solution turns into a yellow/orange precipitate.

It contains low/moderate amount of sugar.

iii) Take some sugar crystals in a test tube, add water and benedict's solution with it, heat it.

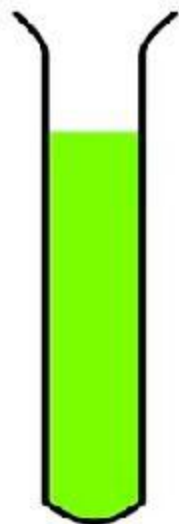
The solution turns into a green precipitate.

It shows that sugar crystals contain very low amount of sugar.



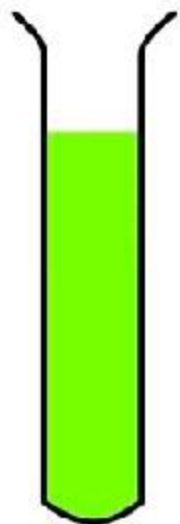
**Blue  
solution**

NIL



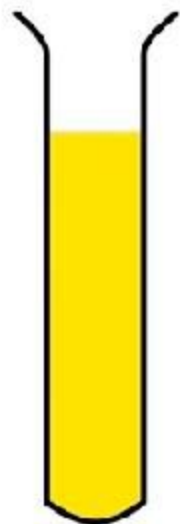
**Green  
solution**

Trace



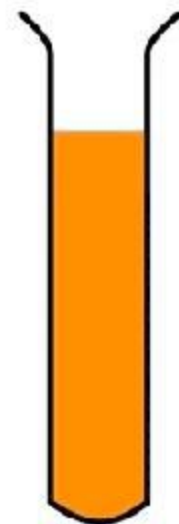
**Green  
ppt**

Very low



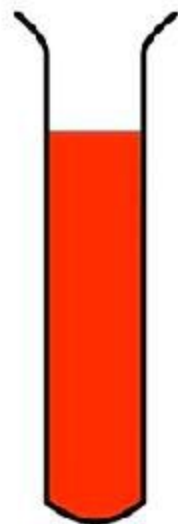
**Yellow  
ppt**

Low



**Orange  
ppt**

Moderate



**Red  
ppt**

High

Where ppt = precipitate