## Observation and Result:

Test Type	PPt appear	Time Taken
Seliwano Afri Test	·Cherry red pink colored in 30 sec	30 Seconds

Result:
Hexoketoses are confirmed

So, Seliwanoffs test is a ketoses identifying a
test.

## EXPERIMENT # 05

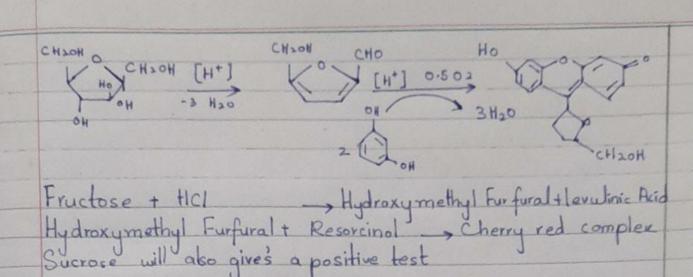
30-Nov-2020

## Title :-

Determine the Seliwanoff's Test 1(For keto Sugars)

This test can differentiate between aldose and ketose because aldohexoses will produce light pink color after sometime. However after prolong boiling, the color is deepen , so restrict the prolong boiling. This test is based on the fact that when carbohydrates are heated, ketoses are more rapidly dehydrated Therefore boiling should before 30 seconds. In concentrated HCI, ketoses undergo dehydration to fulfil or to yield furtural derivatives more rapidly than do These derivatives forms complexes with resorcinol to yield deep cherry red color. I color reaction specific for ketoses. - more readily with seliwanoff's reagent because: ketones have 3 carbon a where aldehyde has a hydrogen atoms and one carbon atoms.

Formula:



Preparation of Seliwanoff's Reagent:
Dissolve 0.05 grams or resorcinal in 50 ml of distilled water. Add 33 ml of Conc. HCl. (37%) to this solution and further add distilled water upto total volume

Take 3 ml of seliwanoff's reagents and one ml of given carbohydrate solution in a test tube and mix.

· Boil for 30 seconds only and then cool the solution.
Note the color that appears.

· Appearance of a cherry red color or pink color within 30 sec indicates the presence of ketohexoses.

Precoutions:The final concentration of HCI is Seliwanoff's should not exceed 12% HCI, because in the presence of very strong acid aldolases maybe

converted to ketohexoses and give a false 2. Similarly in the case with the boiling and hence should not be done for a prolonged period. It goes without saying that other pre-countinary measures of the laboratory have to be Clinnical Correlation: · Carbon monoxide poisoning