

Puspa Shrestha

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EXPERIMENT NO. 3

NAME OF EXPERIMENT: TO DETECT THE PRESENCE OF
~~PROTEIN~~ IN GIVEN SAMPE
SUGAR

APPARATUS REQUIRED

1. Test tube
2. Test tube holder
3. Beaker.

CHEMICALS REQUIRED

1. Benedict solution
2. Fehling solution

PRINCIPLE

Sugar has a free aldehyde group that can reduce the cupric (Cu^{++}) to cuprous (Cu^+) from, hence it is called a reducing sugar. Being reducing sugar it can reduce the copper sulphate of benedict reagent or fehling solution to produce an orange red precipitate of cuprous oxide.

OBSERVATION

Experiment	Observation	Inference
① Benedict Test		
2ml of sample solution of 1ml of benedict solution was taken and the sol ⁿ	Blue colour changed to dirty green, orange and finally	Presence of glucose.

was heated and boiled.	to brick red.	
② Fehling's Test		
2 ml of sample solution of 2 ml of Fehling A and heated and boiled.	Blue colour changed to dirty green, orange and finally bricked.	Presence of glucose.

CONCLUSION

Glucose was detected from the given sample.

PRECAUTIONS

1. Test tube holder should be used while heating.
2. Limited chemical should be used.

 20/9/11/8