

EXPERIMENT No.11

AIM: To test the presence of aldehydic group in the given organic compound.

PROCEDURE:

S.No	EXPERIMENT	OBSERVATION	INFERENCE
1	<u>2,4-DNP TEST</u> Organic compound + 2,4-DNP	Crystalline orange ppt. obtained	Carbonyl group present.
2	<u>TOLLEN'S TEST</u> Organic compound + Tollen's reagent (amm. silver nitrate solution). Heat on water bath.	A silver mirror is obtained the walls of the test tube.	Aldehydic group present.
3	<u>BENEDICT'S / FEHLING'S TEST</u> Organic compound + Benedict's reagent/ Fehling's reagent (A mixture of equal amounts of Fehling's A and Fehling's B). Heat.	A brick red ppt. is obtained.	Aldehydic group present.
4	<u>SCHIFF'S TEST</u> Organic compound + Schiff's reagent	A red/ pink/violet colouration is obtained.	Aldehydic group present.

EQUATIONS: (ON BLANK SIDE USING A PENCIL)



(equation 1 is incomplete)



RESULT: (ON RULED SIDE) Aldehyde present in the given organic compound.