

## Test of aldehydes and Ketones (Distinction).

<b>Test</b>		<b>Aldehydes</b>	<b>Ketones</b>
1.	With Schiff's reagent	Give pink colour.	No colour.
2.	With Fehling's solution	Give red precipitate.	No precipitate is formed.
3.	With Tollen's reagent	Black precipitate of silver mirror is formed.	No black precipitate or silver mirror is formed.
4.	With saturated sodium bisulphite solution in water	Crystalline compound (colourless) is formed.	Crystalline compound (colourless) is formed.
5.	With 2 : 4-dinitrophenyl hydrazine	Orange-yellow or red well defined crystals with melting points characteristic of individual aldehydes.	Orange-yellow or red well defined crystals with melting points characteristic of individual ketones.
6.	With sodium hydroxide	Give brown resinous mass (formaldehyde does not give this test).	No reaction.
7.	With sodium nitroprusside and few drops of sodium hydroxide	A deep red colour (formaldehyde does not respond to this test).	Red colour which changes to orange.