

Laboratory Report (109 chem)

Experiment (9): Carbohydrates

Student Names: Section No:

<i>Compounds Reactions</i>	Observation						Result
	Glucose	Fructose	Lactose	Maltose	Sucrose	Starch	
<p><u>Molisch Test:</u></p> <p>1ml sugar solution + 1ml reagent (α-naphthol in 1ml ethanol) + 1ml conc. H_2SO_4 by drop carefully inside the wall of tube</p>							
<p><u>Reduction of Fehling Solution (A+B):</u></p> <p>Fehling Solution (0.5 ml of Fehling A + 0.5 ml of Fehling B) add to sugar solution</p>							

Compounds Reactions	Observation						Result
	Glucose	Fructose	Lactose	Maltose	Sucrose	Starch	
<u>Tollen's reagent</u> <u>Ammoniacal silver Nitrate</u> Tube1: 2ml AgNO ₃ +8drops 10%NaOH (black ppt)+NH ₄ OH dropwise (until no ppt remains) add to tube2: sugar solution +heat(1-2min)							
<u>Water Solubility Test:</u> Amount of sugar + 1ml water							