

Protocol - Laboratory 1

SELECTED PROPERTIES OF MONOCARBOHYDRATES

Student Name:.....

group:.....

Date:.....

	Principle of reaction	Results/conclusions
Fuchsine reaction	pH –	
Reaction with Fehling's reagent	pH –	
Benedict reaction	pH –	
Nylander reaction	pH –	
Tollen's test	pH –	
Reaction with picric acid	pH –	
Molisch reaction	pH –	
Selivanovs test	pH –	
The reaction with phloroglucine	pH –	
Reaction with orcin – detection of pentoses	pH –	

pH – acid/neutral/base

Detection of deoxyribose		
Reaction with methyl blue		

Impact of various conditions on the course of reduction reactions:

Observations and conclusions (describe individual tubes):

Test tube	After adding NaOH	After heating	After adding glucose
1.			
2.			
3.			
4.			
5.			

Present the structural formulas of glucose:

In acidic pH	In neutral pH	In alkaline pH

Signature of tutor:.....