Experiment 3: D- Xylose Absorption Test

Procedure:

- Set up 7 test tube the Please follow the table:

Chemical	Test		Test		standard	Blank
	1	2	3	4	5	
Sample A	0.1 ml	0.1 ml	-	-	-	-
Sample B	-	-	0.1 ml	0.1 ml	-	-
Working standard	-	-	-	-	0.1 ml	-
O-toluidine reagent	3 ml	3 ml	3 ml	3 ml	3 ml	3 ml

- Cover all tube by aluminum foil then place all tube in water bath at boiling degree for 5 min.
- Read the absorption of 6 tubes against blank at 475 nm. and record your result

Results:

Test tube		Absorption at 475 nm
Sample A	Test 1	
	Test 2	
Sample B	Test 3	
	Test 4	
Standard	Test 5	

Calculation :
- **Concentration of Standard = 0.5g/ml**

Concentration of D-Xylose = $\dfrac{\text{Means Ab Test}}{\text{Means Ab Std.}}$ X Concentration of Standard X10(D.F) = ...

Concentration of D-Xylose **in sample 1**
....
....
Concentration of D-Xylose **in sample 2**
....
....

Example:
- **Means Absorption of sample 1= 0.145**
- **Means Absorption of Standard= 0.357**

- **Conc. Of urine D-xylose =** 0.145÷0.357 x 0.5 X10 =   **2.03 g/ml**