

Lab sheet 8

D-Xylose Absorption Test

Method:

- 1- Add 0.1 ml of urine A, urine B and standard each as a duplicate
- 2- In the blank tube, add 0.1 ml of water
- 3- Add 7 ml of O-toluidine reagents to all tubes
- 4- Cover the tubes with aluminum and mix the contents of each tube
- 5- Incubate the tubes in boiling water bath for 5
- 6- Let the tubes cool for 1-3 minutes
- 7- Read the absorbance at 475 nm against blank

Results:

Tubes	Absorbance at 475nm	Mean of abs
T1		
T2		
T3		
T4		
S1		
S2		

Calculations:

Concentration of D-xylose in urine= (Mean Abs. of test) / (Mean Abs. of Std.) x Conc. Of Std. x D.F

Conc. Of Std.= 0.01 g/ml, Dilution factor= 10, Total volume = 150 ml

- **Normal value:** > 2.5 g / total volume collected
- **Abnormal value:** less than 2.5 g / total volume collected