

**Lab sheet #6****Glutathione estimation in serum****Method:**

- 1- Prepare 5 serial dilutions from GSH stock (10mg/dl) in concentrations (2, 4, 6, 8 and 10 mg/dl) with a final volume of 3 ml diluted with phosphate solution
- 2- Add 3 ml of phosphate solution to a separate tube and use it as a blank
- 3- Add 0.5 ml of the previously prepared tubes, then add 2, 0.25 and 0.25 ml of phosphate solution, DTNB and water respectively
- 4- In the sample tube add 0.3 ml of serum, then add 2, 0.25 and 0.45 ml of phosphate solution, DTNB and water respectively
- 5- Incubate all tubes for 10 min at 37°C
- 6- Read absorbance at 412 nm
- 7- Plot the standard curve and determine glutathione concentration from the graph expressed as  $\mu\text{g/ml}$

**Result:**

<b>Tubes</b>	<b>Abs. at 412 nm</b>
<b>Blank</b>	
<b>1</b>	
<b>2</b>	
<b>3</b>	
<b>4</b>	
<b>5</b>	
<b>Sample</b>	