

**Lab sheet #3****-Estimation of total protein in milk and egg using turbidimetric method -****Method:**

- Set up a series of test tube as follows, label from 1- 6:

<b>Tube</b>	<b>Protein solution (140 mg/dl)</b>	<b>Water</b>
<b>1</b>	4.5	1.5
<b>2</b>	3	3
<b>3</b>	2.4	3.6
<b>4</b>	1.5	4.5
<b>5</b>	0.9	5.1
<b>6</b>	0.3	5.7

Label a fresh set of test tubes 1 to 6. blank, egg sample and milk sample:

1. Add 8 ml of sulfosalicylic acid to each test tube.
  2. Into tube 1 pipette 2 ml of protein solution 1(that you prepared before).
  3. Into tube 2 pipette 2 ml of protein solution 2 ... etc
  4. In the blank add 2 ml water.
  5. Add 0.5 ml of egg sample and 1.5 ml water.
  6. Add 2 ml of milk sample.
- Mix the content of each tube well and allow to stand for five minutes.
  - Using solution 7 (Blank) to set transmittance 100% at 500 nm.
  - Then use solutions from 1-6, to recorded respective transmittance of each suspension.
  - Record your results.

**Results:**

<b>Tube</b>	<b>Transmittance at 500nm</b>	<b>Protein concentration (mg/dl)</b>
Blank		
1		
2		
3		
4		
5		
6		
Milk sample		
Dil. Milk sample		
Egg sample		
Dil. egg sample		