**Separation of Main Proteins in Plasma and Serum**

**Plasma:**

http://search.stjames.ie/Labmed/media/Media,23953,en.jpg **Aim to :…………………………………………………………..**

This Separation by ……………….Method

**Filtrate(Supernanat):**



**Serum:**

4ml serum + 4 ml saturated ammonium sulphate solution

Aim to :…………………………

Centrifuge al 3500 rpm /10 min

**Globulin Precipitate**

Transfer the supernatant in to other test tube (Do not throw it!!) Dissolve the precepitate in 2ml 0.9% saline

Biuret test (Tube A)

Ain to:………………

Heat Coagulation Test (Tube B)

Aim to:…………..

1 ml Globulin + 1ml Biuret Reagent

Mix well, allow to stand in water bath at 37 °C/10 min

🡪Blue color (confirms the presence of protein “mainly globulin”)

1 ml Globulin + drops of 2M acetic acid

Heat the content of the tube at 70 °C/10 min

🡪Cloudiness (confirms the presence of

protein “mainly globulin”)

***To Filtrate (Mainly Albumin)***

Divide the filtrate into 2 tubes

Add drops of 2M acetic acid

Heat the content of the tube at 70 °C/10 min

🡪Cloudiness (confirms the presence of protein “albumin”)

Salting out (Tube A)

Aim to:………………….

Heat Coagulation Test (Tube B)

Aim to:……………

Add solid ammonium sulphate until albumin is precipitated

🡪(Confirms the presence of protein “albumin”)