



Potassium Oxalate, 5% w/v

R012

It is use as anticoagulating agent.

Composition**

Ingredients

Potassium oxalate	5.0 gm
Distilled water	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

Measure 0.5 ml of this solution into stoppered test tubes. These are dried at room temperature or in an oven at not more than 60°C. The dry mixture is used so as not to dilute the blood. Place 5 ml blood into this anticoagulated tube and invert the stoppered tube gently for about 5 times to ensure adequate mixing.

Principle And Interpretation

Coagulation of blood can be prevented by various ways, one of them is by adding oxalates. Potassium oxalate shrinks the red blood cells, whereas ammonium oxalate produces swelling of the cells. When combined as a double oxalate mixture, they do not affect the shape of the red cells and therefore do not influence the haematocrit. Heparin is an excellent anticoagulant but is more expensive than other chemicals. Potassium oxalate is commonly used when oxalate is required since it is more soluble than sodium or lithium salts (3).

Quality Control

Appearance

Colourless liquid. Colourless liquid.

Clarity

Clear with no insoluble particles. Clear with no insoluble particles.

Concentration

4.90%- 5.10%

Procedure

Measure 0.5 ml of the reagent (Potassium oxalate) 0.5% w/v into stoppered test tubes. These are dried at room temperature or in an oven at not more than 60°C. The dry mixture is used so as not to dilute the blood. Place 5 ml blood into anticoagulated tube and invert tube gently about 5 times to ensure adequate mixing. Measure 0.5 ml of the reagent (Potassium oxalate) 0.5% w/v into stoppered test tubes. These are dried at room temperature or in an oven at not more than 60°C. The dry mixture is used so as not to dilute the blood. Place 5 ml blood into anticoagulated tube and invert tube gently about 5 times to ensure adequate mixing.

Results

The set concentration of Potassium Oxalate keeps the blood uncoagulated. The set concentration of Potassium Oxalate keeps the blood uncoagulated.

Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Reference

1) Godkar P.B; 1994, Textbook of Medical Laboratory technology, Bhalani Publication House, Mumbai India.

Revision : 1 / 2015

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