



Potassium chromate, 5% w/v

R011

It is use for cholride estimation in urine sample.

Composition**

Ingredients

Potassium chromate	5.0 gm
Distilled water	100.0 ml
Final pH (at 25°C)	9.8±0.12

**Formula adjusted, standardized to suit performance parameters

Directions

Place 10 drops of urine in a test tube and add 1 drop of 5% potassium chromate (K_2CrO_4) solution as indicator. Add dropwise 2.9% silver nitrate with the same dropper until a permanent and distinct colour change to a red brown colour occurs.

Principle And Interpretation

The chloride in the urine reacts with silver nitrate to precipitate as silver chloride. Any excess of silver nitrate reacts with potassium chromate to form a reddish precipitate of silver chromate, the appearance of which indicates the endpoint.

Quality Control

Appearance

Lemon yellow coloured solution.

Clarity

Clear with no insoluble particles.

pH

9.72-9.92

Concentration

4.90%- 5.10%

Test

Place 10 drops of urine in a test tube and add 1 drop of 5% Potassium chromate (K_2CrO_4) solution as indicator. Add dropwise 2.9% silver nitrate with the same dropper until a permanent and distinct colour change to a red brown occurs.

Results

The number of drops of silver nitrate required to produce the colour change (red) expresses the sodium chloride content of the urine in grams per litre.

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) Newell J.E. and Duke e., 1961, Workshop on urine analysis and renal function studies, the routine examination of urine in laboratory, Chicago, American society of Clinical pathologist.
- 2) McFadden J., 1980, Biochemical Tests for identification of Medical Bacteria, 2nd ed., CRC Publication, Cleveland, Ohio

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