

URINE BILE PIGMENT KIT

PRINCIPLE

10% Barium chloride precipitates bile pigments, which gets oxidized with Ferric chloride in presence of trichloroacetic acid (Fouchet's Reagent) to form a green colored Biliverdin the de-composites of Bilirubin. Bile pigments are generally found in urine sample of hepatitis or Jaundice patients.

REAGENTS SUPPLIED

R 1 - 10% Barium Chloride	:	500 mL
R 2 - Fouchet's Reagent	:	75 mL
Trichloroacetic acid	:	25%
Ferric Chloride	:	1%
Dropper	:	2 Nos.

Working Reagent Preparation

All Reagents are ready to use.

STORAGE AND STABILITY

Stable at 2-35°C until expiry date printed on label. Fouchet's reagent Contains Compressed gases therefore, prior to opening frees the bottle for 1 hour at 2-8°C and open the metal lid with care.

SAMPLE

Fresh Urine collected in a clean bottle.
(All Samples should be handled as potential infective agents as no laboratory methods make conclusive findings for its safety. Therefore, adequate protection laboratory measures should be taken while handling such materials.)

CAUTION

Fouchet's reagent is highly corrosive. Fouchet's reagent Contains Compressed gases. Refrigerate adequately prior to opening Fouchet's reagent bottle.

METHOD

Take in to a glass centrifuge tube with patient ID

Fresh Urine	5.00 mL
Barium Chloride 10%	2.00 mL

Mix well and wait for 5 minutes, centrifuge at 3000 RPM for 5 minutes. Save the deposit by carefully draining off supernatant. Keep the tube inverted on a piece of cotton wool or filter paper for one minute to completely remove supernatant fluids if any.

Immediately add 2 drops of Fouchet's Reagent to the deposit in the test tube and observe result as under within 2-5 minutes.

RESULTS

A negative test result can be interpreted as no blue or bluish green color change within 3 minutes on precipitate contacted with Fouchet's Reagent.



A positive test result can be interpreted as pale to deep bluish color change within 3 minutes on precipitate contacted with Fouchet's Reagent.

Run a known negative and known positive control sample to observe the performance of the reagents.

LIMITATION

Blood or drug metabolites similar to sulpha or salicylates mask with yellow to brown color. Excessive bacterial contamination makes false negative results.

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