



Fouchet's Reagent

R018

Intended use

Fouchet's Reagent is used to test for bilirubin and some other derivatives.

Composition**

Ingredients

Trichloroacetic acid	25.0 gm
Ferric chloride, 10% aqueous	10.0 ml
Distilled water	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

1. Take about 10 ml urine.
2. Add 1 gm barium chloride, mix and filter.
3. Spread out on a filter paper.
4. When it is partly dry, drop a little Fouchet's reagent or yellow nitric acid on the precipitate.

Principle And Interpretation

For testing bilirubin in urine, two types of tests are available namely,

- 1) Oxidation test - Where bilirubin is oxidized to green biliverdin and
- 2) Diazotization test - Where bilirubin is diazotized to a highly coloured compound.

Fouchet's reagent used in Fouchet's test comes under oxidizing reagent or test. Barium chloride precipitates the sulphate radicals present in urine to form precipitate of barium sulphate. If bile pigments are present in urine, they adhere to these molecules. Ferric chloride present in Fouchet's reagent then oxidizes yellow bilirubin, in the presence of trichloroacetic acid to green biliverdin. Therefore, the development of green colour due to the formation of biliverdin indicates the presence of bilirubin (bile) in urine.

Type of specimen

Clinical specimen : Urine.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines.

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

In Vitro diagnostic use only. Read the label before opening the container. Wear protective gloves/protective clothing/ eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. The test relies on correct collection of sample by the patient, and if this is not done properly the results may be inaccurate.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Yellow coloured solution
- **Clarity** : Clear without precipitate
- **Test** : To about 10 ml urine, add 1 gm barium chloride, mix and filter, spread out the filter paper when it is partly dry, drop a little fouchet's reagent or yellow nitric acid on the precipitate
- **Results** : Development of green colour due to formation of biliverdin indicates the presence of bile (bilirubin) in the urine.

Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

Reference

1. Godkar B. P., 1996, Textbook of medical laboratory technology: 40(544)
2. Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology', Norris J. and Ribbons D., (Eds.), Vol. 3A, Academic Press, London.
3. MacFaddin J. F., 2000, Biochemical Tests for Identification of Medical Bacteria, 3rd Ed., Lippincott, Williams and Wilkins, Baltimore.



Storage temperature



Do not use if package is damaged



In vitro diagnostic medical device



CE Marking



HiMedia Laboratories Pvt Limited
C-40,21/Y, MIDC, Wagle Ind Area,
Thane(W)-400604,Maharashtra,India



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