

BARIUM CHLORIDE 10% SOLUTION

PRODUCT CODE 808100

Intended Use

Barium chloride solution is used in bile pigment determination in routine urine analysis.

Principle And Interpretation

Barium chloride solution is used in bile pigment determination in routine urine analysis in the Harrison spot test. The main bile pigment is bilirubin which is formed in liver. When Barium chloride reagent is added to urine, it combines with sulphate radicals in urine and precipitate of barium sulphate is formed. If bile pigments are present in urine, they will adhere to these barium sulphate molecules. Ferric chloride present in Fouchet's reagent then oxidizes yellow bilirubin, in the presence of trichloroacetic acid to green or blue green colour. This procedure is very sensitive and detects 0.005 - 0.1mg/dL of bilirubin.

PARAMETER	LIMIT
Description	A clear colourless solution.
Solubility	Miscible with water.
Minimum Assay (BaCl ₂ .2H ₂ O)	About 10.0% w/w

Directions

1. Place 3-4 ml of urine in a centrifuge tube and add equal amount of 10% barium chloride.
2. Mix well.
3. Centrifuge at 1,500 rpm for 10 minutes.
4. Decant supernatant in another test tube for some other tests (like Urobilinogen Test).
5. Add 1-2 drops of Fouchet's reagent to the sediment.

Results

No colour change in sediment: Bile pigment Absent

Colour change to green: Bile pigments present

Grade the positive results, as trace, +, ++, +++ and ++++ according to the intensity of the colour of the sediment.

Note(s) : Assay (if applicable) method mentioned.

WARNING

HAZARD STATEMENTS : May cause drowsiness and dizziness. Causes mild skin irritation. Causes eye irritation. May cause allergic skin reaction.

PRECAUTIONARY STATEMENTS :

Prevention : Contaminated clothing should not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after Handling .

Response : If skin irritation occurs, seek medical advice/attention. If skin irritation or rash occurs, seek medical advice/attention. If eye irritation persists, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment: refer to Label or MSDS. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

Disposal : Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The chemical should be mixed with combustible solvent and burnt in a chemical incinerator equipped with burner and scubber.

IMDG Code :-
UN No. :-
IATA :-

Hazard Pictogram(s) :-



GHS07

Replace date 21-Dec-2023