Ehrlich's Aldehyde Reagent

R005

Intended use

Ehrlich's aldehyde reagent is used as an analytical reagent for detection of Urobilinogen in urine.

Composition**

Ingredients

Hydrochloric acid, concentrated	100.0 ml
p-dimethylamino benzaldehyde	4.0 gm
Distilled water	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

1. Take 10 ml of urine.
2. add 1.0 ml Ehrlich's benzaldehyde reagent.
3. Mix and let it stand for about 10 minutes.
4. Observe colour by looking down into the tube held over a white surface.

Principle And Interpretation

Ehrlichs aldehyde reagent is used to detect urobilinogen in urine. Urobilinogen is one of the bile pigments found in urine in case of liver defects, (epidemic icterus, cirrhosis) or as a result of excessive formation of bilirubin (haemolytic jaundice). Urobilinogen is normally present in urine at concentrations up to 1.0 mg/dL. The colourless urobilinogen reacts with Ehrlichs aldehyde reagent in an acidic medium to form pink-red condensing products. False positive results can be caused by medications. High nitrite concentrations can cause false negative reactions. Pigmented urine can interfere with detection of urobilinogen.

Type of specimen

Clinical samples: 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. False positive reaction in the test can also be obtained if there are certain drugs present
2. High nitrite concentrations can cause false negative reactions.
3. Pigmented urine can interfere with detection of urobilinogen.

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 :** Light yellow coloured solution with characteristic odour.
- **Clarity :** Clear solution with no insoluble particles.
- **Test :** Reaction is observed by addition of 1ml of reagent to 10 ml of urine
- **Results :** Cherry red colour: Increased amount of urobilinogen

  Absence of colour: Decreased or normal amount of urobilinogen

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. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1
4. Benedict, S.R."A Reagent for the detection of Reducing Sugars", J.Biol. Chem. 5(6):485-487.

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

CEpartner4U,ESDOORNLAAN 13,3951
DB MAARN,The Netherlands,
www.cepartner4u.eu

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