Ehrlich's Aldehyde Reagent

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

Composition**
Ingredients
- Hydrochloric acid, concentrated: 100.0ml
- p-dimethylamino benzaldehyde: 4.0gm
- Distilled water: 100.0ml

**Formula adjusted, standardized to suit performance parameters

Directions
To 10 ml of urine, add 1.0 ml Ehrlich's benzaldehyde reagent, mix and let it stand for about 10 minutes. 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 reactes 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 (2,3). 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

Performance and Evaluation
Performance of the product 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

Please refer disclaimer Overleaf.
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 (2,3).

Reference