



## Ehrlich's Aldehyde Reagent

R005

Ehrlich's aldehyde reagent is used to detect 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

Ehrlich's 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). The colourless urobilinogen reacts with Ehrlich's aldehyde reagent in an acidic medium to form pink-red condensing products. It should be noted that Ehrlich's reagent reacts with substances other than urobilinogen e.g phenazopyridium and forms red colour.

### 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 below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

### Reference

1. Bauer J.D., Ackermann P.G. and Toro G.(Eds.),1974,Clinical Laboratory Methods,8th ed.,The C.V. Mosby Co. ,St. Louis

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