



## Methyl Orange Indicator

I006

### Intended Use:

It is used as a pH indicator. And also used frequently in titrations because of its clear and distinct colour change.

### Composition\*\*

#### Ingredients

Methyl orange	0.05gm
Disilled water	100ml

Note: Filter the solution if a precipitation forms

\*\*Formula adjusted, standardized to suit performance parameters

### Principle And Interpretation

Methyl orange is a pH indicator frequently used in titrations because of its clear and distinct colour change. Unlike a universal indicator, methyl orange does not have a full spectrum of colour change, but has a sharper end point. In a solution becoming less acidic, methyl orange moves from red to orange and finally to yellow with the reverse occurring for a solution increasing in acidity. The entire colour change occurs in acidic conditions. Methyl orange shows red colour in acidic medium and yellow colour in basic medium (1).

### 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

Orange coloured solution.

#### Clarity

Clear solution without any particles.

#### Reaction

Reaction of 0.1% aqueous solution is red at pH 3.1 and yellow at pH 4.4 at 25°C.

### 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 (3,4).