



## Phenolphthalein, 0.1% w/v

I009

### Intended use

Phenolphthalein is an organic compound often used as a pH indicator in titrations.

### Composition\*\*

#### Ingredients

Phenolphthalein	0.1 gm
Ethanol	50.0 ml
Distilled water	50.0 ml

Note: Filter if a precipitate forms

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

### Directions

1. Phenolphthalein has wide range of application so follow appropriate direction as per application protocol.

### Principle And Interpretation

Phenolphthalein is often used as an indicator in acid–base titrations. It turns colorless in acidic solutions and pink in basic solutions. It belongs to the class of dyes known as phthalein dyes. Phenolphthalein is slightly soluble in water and usually is dissolved in alcohol. The principle behind the function of an indicator is that it reacts with water to form the hydrogen cation  $H^+$  or hydronium ion  $H_3O^+$ . The reaction changes the color of the indicator molecule.

### Type of specimen

Biological sample

### Specimen Collection and Handling

Follow appropriate techniques for handling specimens as per established guidelines

### 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. An indicator is not functional above its pH range because the indicator does not change color at these pH values.
2. If the substance or sample is contaminated, the color may be wrong.
3. Acid-base indicators show just one- or two-color changes.
4. Indicators measure pH at low accuracy, they only indicate sample acidity or alkalinity and not exact pH

### 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** : Colourless solution.
- **Clarity** : Clear without any particles.
- **Reaction** : Pink to deep red colour above pH 8.3 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.

## Reference

1. Chemistry infolab reagents and resources; The preparation of titration indicators; Dhanal De Lloyd, chem.Dept
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore.
3. INDIAN PHARMACOPOEIA 2018, VOL-I, 4.3(958)



Storage temperature



Do not use if package is damaged



In vitro diagnostic medical device



CE Marking



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Revision : 01/2022

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