



## Phenol Red Indicator

1010

### Intended Use:

Phenol Red Indicator is recommended as pH indicator which helps in monitoring of the pH changes in the cell culture.

### Composition\*\*

#### Ingredients

Phenol red sodium salt	0.04gm
Disilled water	100.0ml

Note: Grind the indicator in mortar and then dilute to 100ml by using disilled water.

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

### Directions

1. Phenol Red Indicator has wide range of application so follow appropriate direction as per application protocol.

### Principle And Interpretation

Phenol red is a pH indicator frequently used in cell biology laboratories. Its color exhibits a gradual transition from yellow to red over the pH range 6.8 to 8.2. Above pH 8.2, phenol red turns a bright pink (fuchsia) color.

### 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 product is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

#### Appearance

Reddish orange coloured solution.

#### Clarity

Clear without any particles.

#### Reaction

At pH 6.8 the indicator is yellow and at pH 8.4, the indicator turns red.

#### Sensitivity (As per IP)

A mixture of 0.1ml of the solution and 100ml of carbone dioxide- free water is yellow. Not more than 0.1ml of 0.02M sodium hydroxide is required to change the colour of the solution to reddish violet.

### 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. Text Book of Medical Laboratory Technology; Praful B. Godkar
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

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### Disclaimer :

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