



Bromo Phenol Blue Indicator

I004

Intended use

Bromophenol blue Indicator is recommended as a pH indicator, a colour marker and as a dye.

Composition**

Ingredients

Bromophenol blue	0.1 gm
Distilled water	100.0 ml

**Formula adjusted, standardized to suit performance parameters

Directions

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

Principle And Interpretation

Bromphenol blue is an acid-base indicator since its useful range lies between pH 3.0 and 4.6. It changes from yellow at pH 3.0 to blue at pH 4.6; this reaction is reversible. Bromophenol blue is structurally related to phenolphthalein (a popular indicator). Bromophenol blue is also used as a color marker to monitor the process of agarose gel electrophoresis and polyacrylamide gel electrophoresis.

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

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** : Bluish-violet coloured solution.
- **Clarity** : Clear solution without any insoluble particles.
- **Reaction** : At pH 3.0 the indicator turns yellow and at pH 4.6 the indicator is blue.
- **Sensitivity Test** : A mixture of 0.05ml of the solution and 20ml of carbon dioxide free water to which 0.05ml of 0.1M hydrochloric acid has been added is yellow. Not more than 0.1ml of 0.1M sodium hydroxide is required to change the colour to bluish 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. Horobin R. W. and Kiernan J. A., 2002, 10th ed., CONN'S Biological Stains, A Handbook of Dyes, Stains and Flurochromes for Use in Biology and Medicine: 15(215-216)
2. INDIAN PHARMACOPOEIA 2018, VOL-I, 4.3(957-958)



Storage temperature



Do not use if package is damaged



In vitro diagnostic medical device



CE Marking



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