**Bromophenol blue indicator**

**Intended Use:**
Bromophenol blue Indicator is recommended as a pH indicator, a colour marker and as a dye.

**Composition**

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromophenol blue</td>
<td>0.1 gm</td>
</tr>
<tr>
<td>Distilled water</td>
<td>100ml</td>
</tr>
</tbody>
</table>

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

**Directions**

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

**Principle And Interpretation**

Bromophenol 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 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**

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 (As per IP)**

A mixture of 0.05ml of the solution and 20ml of carbon dioxide free water to which 0.05ml of 0.1M hydrochloride has been added is yellow. Not more than 0.1ml of 0.1M sodium hydroxide is required to change the colour to bluish violet.

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Please refer disclaimer Overleaf.
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

2. INDIAN PHARMACOPOEIA 2018, VOL-I, 4.3(957-958)

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

In vitro diagnostic medical device
CE Marking

Storage temperature

Do not use if package is damaged

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