



## Bromophenol blue indicator

I004

### Intended Use:

It is recommended as a pH indicator, a colour marker and as a dye.

### Composition\*\*

#### Ingredients

Bromophenol blue	0.1gm
Distilled water	100ml

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

### Principle And Interpretation

Bromophenol blue is an acid-base indicator structurally related to phenolphthalein (a popular indicator). It can be prepared by slowly adding excess bromine to a hot solution of phenolsulfonphthalein in glacial acetic acid (1). It changes colour from yellow at pH 3.0 to blue at pH 4.6; this reaction is reversible. Bromophenol blue is also used as a color marker to monitor the process of agarose gel electrophoresis and polyacrylamide gel electrophoresis (2), and also used as a dye.

### 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

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.

### 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 (4,5).

## Reference

- 1.Santa Cruz Biotechnology, Inc. Bromophenol Blue(CAS 115-39-9) Properties.
2. "Agarose gel electrophoresis (basic method)". Retrieved 2008-04-07.
3. Chemistry infolab reagents and resources ; The preparation of titration indicators; Dhanal De Lloyd,chem.Dept
4. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
5. Jorgensen,J.H., Pfaller , M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual

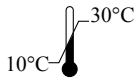
Revision : 1 / 2015



In vitro diagnostic medical device



CE Marking



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Pvt. Limited,  
B /4-6 , MIDC, Dindori, Nashik MH

[www.himedialabs.com](http://www.himedialabs.com)



CE Partner 4U ,Esdoornlaan 13, 3951  
DB Maarn The Netherlands,

[www.cepartner4u.eu](http://www.cepartner4u.eu)

### 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 or therapeutic use but for laboratory, diagnostic, 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.