Bromophenol blue indicator

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

**Composition**

**Ingredients**
- Bromophenol blue: 0.1gm
- Distilled water: 100ml

**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.

**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).

Please refer disclaimer Overleaf.
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Reference
3. Chemistry infolab reagents and resources: The preparation of titration indicators; Dhanal De Lloyd, chem. Dept

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