Product Information

Bromophenol Blue
Item No. 14331

CAS Registry No.: 115-39-9
Formal Name: 4,4’-(1,1-dioxido-3H-2,1-benzoxathiol-3-ylidene)bis-2,6-dibromo-phenol
Synonyms: Albutest, NSC 7818
MF: C_{19}H_{10}Br_{4}O_{5}S
FW: 670.0
Stability: ≥2 years at room temperature
Supplied as: A crystalline solid
UV/Vis: λ_{max}: 206, 282, 424 nm

Laboratory Procedures
For long-term storage, we suggest that bromophenol blue be stored as supplied at room temperature. It should be stable for at least two years.

Bromophenol blue is supplied as a crystalline solid. A stock solution may be made by dissolving the bromophenol blue in the solvent of choice. Bromophenol blue is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of bromophenol blue in ethanol is approximately 10 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of bromophenol blue can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of bromophenol blue in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Bromophenol blue is commonly used as a pH indicator, a color marker to monitor the progress of agarose or polyacrylamide gel electrophoresis, and a dye to detect proteins and nucleic acids (absorbance at 610 nm), particularly when staining living tissues. As an acid-base indicator its useful pH range is 3-4.6 where the color changes from yellow at pH 3.0 to purple at pH 4.6.

References
1. Burford, G.D. and Pickering, B.T. The number of neurophysins in the rat. Influence of the concentration of polyacrylamide gel electrophoresis, and a dye to detect proteins and nucleic acids (absorbance at 610 nm), particularly when staining living tissues.1-3 As an acid-base indicator its useful pH range is 3-4.6 where the color changes from yellow at pH 3.0 to purple at pH 4.6.

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14331

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent by e-mail to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications in the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

Copyright Cayman Chemical Company, 05/17/2013