



Product Information Sheet

B1714 **Bromothymol Blue,** **Sodium Salt**

Synonyms: Bromothymol Sulfone Phthalein, BTB,
3',3"-Dibromothymolsulfonphthalein sodium salt
CAS: 34722-90-2
Formula: $C_{27}H_{27}Br_2O_5SNa$
Mol. Weight: 646.37

Properties

Form: Powder
Appearance: Orange to Black
Solubility: Soluble in Water
Application: Phytopathology, Seed Testing, Microbiology
Storage Temp: Room Temperature
Typical Working Concentration: Varies with application, should be determined by end user.

Application Notes

Generally used as a biological stain and pH indicator. Bromothymol Blue (BTB) is yellow at a pH of 6.0 and gradually turns to blue as the pH rises to 7.6. It can be incorporated into a medium to observe color change, such as the inclusion of BTB in MSP agar (ISTA, 2011) or any other microbiology medium where a pH change can be indicative of bacterial/fungal growth.

References

ISTA (2011) [Annexe to Chapter 7: Seed Health Methods](#).
Kawanishi T, T. Shiraishi, Y. Okano, K. Sugawara, M. Hashimoto, K Maejima, K Komatsu, S Kakizawa, Y Yamaji, H Hamamoto, K Oshima, S Namba (2011) New Detection Systems of Bacteria Using Highly Selective Media Designed by SMART: Selective Medium-Design Algorithm Restricted by Two Constraints. PLoS ONE Volume 6, Issue 1.