



## Bromothymol Blue Sodium Salt

pH indicator, detecting the presence of proteins

In microbial culture media, bromothymol blue sodium salt is an essential pH indicator that gives an indication of how acidic or alkaline the surrounding solution is.

In analytical chemistry, this dye is used for detecting the presence of proteins by binding to phosphatase enzyme. A blue complex is released, signifying the presence of proteins, when the phosphatase enzyme cleaves the bonds between dye and protein, so a blue complex is released that can be seen.

Cat. Number	ASC-1003
CAS Number	34722-90-2
MDL Number	MFCD00077263
PubChem	310269017
Molecular Weight	614.30 gr/mol
Molecular Formula	C <sub>27</sub> H <sub>27</sub> Br <sub>2</sub> NaO <sub>5</sub>
Storage Temperature / Condition	20 °C / Keep away from oxidizing agents.
Form and Color	Powder / Green to orange to brown to black powder
Solution Appearance	0.1 % in water, clear
Dye Content	≥ 90 %
pH Transition Range	5.8 (yellow) to 7.6 (blue)
Wavelength of Maximum Absorption	615 - 618 nm
Absorptivity (1% / 1cm)	≥ 450 (at $\lambda$ max)
Loss on Drying	≤ 5 %