



## Bromocresol Green

Biological stain, pH indicator, DNA and protein tracker

Bromocresol Green is a biological stain used in microbial culture media as pH indicator. This dye is also used in DNA tracking in agarose gel electrophoresis. Bromocresol green binds to proteins, so, it can be used for detecting proteins with an optical sensor.

Bromocresol green can reversibly react with hydrochloride acid in a pH dependent manner. Note that if Bromocresol Green binds to serum proteins, a decrease in fluorescent intensity will happen.

Cat. Number	ASC-1012
CAS Number	76-60-8
MDL Number	MFCD00005874
Pubchem	310268866
Molecular Weight	698.02 gr/mol
Molecular Formula	C <sub>21</sub> H <sub>14</sub> Br <sub>4</sub> O <sub>5</sub> S
Storage Temperature / Condition	20 °C / Keep away from strong oxidizing agents.
Form and Color	Powder / Light yellow to orange to brown
Solution Appearance (0.1 % in ethanol)	Clear
Solubility	Soluble in Benzene, ethanol, and diethyl ether. Partially soluble in water.
Absorptivity (1%   1cm), (pH 5.4, at max 616 nm)	530 to 570
Absorptivity (1%   1cm), (pH 3.8, at max 443 nm)	240 to 270
pH Transition Range	3.8 (Yellow-Green) – 5.4 (Blue)
Loss on Drying	≤ 3 %
Synonym	3', 3'', 5', 5'' – Tetrabromo-m-cresolsulfonephthalein; Bromocresol Green Sultone form