

36408 Bromcresol Purple Broth

Bromcresol Purple Broth is recommended for studying fermentation of carbohydrates by pure culture.

Composition:

Ingredients	Grams/Litre
Peptic digest of animal tissue	10.0
Sodium chloride	5.0
Beef extract	3.0
Bromo cresol purple	0.04
Final pH 7.0 +/- 0.2 at 25°C	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Appearance: Light yellow coloured, homogeneous, free flowing powder.
 Colour and Clarity: Purple coloured, clear solution without any precipitation.

Directions:

Suspend 18 g in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes containing inverted Durham`s tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes. Cool and aseptically add sterile desired carbohydrate to a final concentration of 0.5 - 1.0 %.

Principle and Interpretation:

Bromcresol Purple Broth is formulated as recommended by APHA. It is media specially developed for studying fermentation reaction of members of *Enterobacteriaceae* (1). Peptic digest of animal tissue and beef extract provide essential growth nutrients like amino acids and other nitrogenous compounds to microorganisms. Bromo cresol purple is the pH indicators of the media and reacts with a color change from purple to yellow by acid production. Sodium chloride maintains the osmotic equilibrium of the media.

Cultural characteristics after 18-24 hours at 35-37°C

Organisms (ATCC)	Growth	Acid*	Gas*
<i>Shigella flexneri</i> (12022)	+++	+	-
<i>Enterobacter aerogenes</i> (13048)	+++	+	+
<i>Klebsiella pneumoniae</i> (13883)	+++	+	+
<i>Escherichia coli</i> (25922)	+++	+	+
<i>Salmonella</i> serotype Typhimurium (14028)	+++	+	+

Key: * = with added dextrose

References:

1. C. Vanderzant, et al., Compendium of Methods for the Microbiological Examination of Foods, eds. 3rd Edition. APHA. Washington, D.C. (1992)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

