



Product Data Sheet

MALACHITE GREEN BROTH

Product No. GB-DCM-00397-1A

INTENDED USE

For selective enrichment of *Pseudomonas aeruginosa*.

PRODUCT SUMMARY

Leifson developed a synthetic liquid medium, which differentiated *Aerobacter* (now *Enterobacter*) from *Escherichia* species based on their ability to utilize malonate where *Enterobacter* utilizes malonate and *Escherichia* does not.

Product Specifications

Ingredients	Gms / Ltr
Peptic digest of animal tissue	15.000
Meat extract	9.000
Dipotassium hydrogen phosphate	1.100
Malachite green	0.030

PRINCIPLE

Meat extract and peptic digest of animal tissue serve as sources of essential nutrients required for bacterial metabolism. Dihydrogen potassium phosphate serves to buffer the medium. Malachite green makes the medium selective for *P. aeruginosa* while suppressing the growth of the accompanying flora. The medium can also be used as a single strength medium by suspending 8.4 g/liter of medium, depending upon the sample being tested.

INSTRUCTION FOR USE

- Dissolve 25.13 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Dispense into tubes. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Light yellow to pink colour, homogeneous free flowing powder.
Appearance of prepared medium Peacock blue coloured clear solution without any precipitate
pH (at 25°C) : 7.0± 0.2



Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
Escherichia coli	25922	$\geq 10^3$	Inhibited	35-37°C	18-24 Hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	35-37°C	18-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding

This product is for research use only.