

63163 Malachite Green Broth

For the selective enrichment of *Pseudomonas aeruginosa* according to Habs and Kirschner. The culture medium has been recommended by Schubert and Blum for the examination of ground-, surface-, drinking-, bathing and process-water. In addition, It is suitable for the examination of mineral and spring-water.

Composition:

Ingredients	Grams/Litre
Meat peptone	15.0
Meat extract	9.0
Malachite green oxalate	0.03
Dipotassium hydrogen phosphate	1.1
Final pH 7.6 +/- 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.

Directions:

Dissolve 25 g in 1 litre distilled water. Pour into small containers and autoclave at 121°C for 15 minutes.

Principle and Interpretation:

Meat peptone and meat extract in the medium provide necessary nitrogenous nutrients for the growth of *Pseudomonas aeruginosa* while malachite green largely inhibits the accompanying flora but does not affect *Pseudomonas aeruginosa*.

Cultures showing turbidity after the incubation are regarded positive. The growth is not necessarily accompanied by a change of color.

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

Organisms (ATCC)	Growth
<i>Pseudomonas aeruginosa</i> (27853)	+++
<i>Escherichia coli</i> (25922)	-

References:

1. Habs M., Kirschner K.H., Z. Hyg., 124, 557 (1943)
2. Schubert R., Blum U., Zbl. Bakt. Hyg.I. Orig. B., 158, 583 (1974)

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.

