

GLUTAMATE BROTH BASE, MODIFIED

A synthetic differential medium for the enumeration of coliforms in water.

Dehydrated media	
Code number:	500 g: MMG20500, 5 kg: MMG25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,5 – 6,9

Direction: Dissolve **2,5 g of ammonium chloride** and **6,4 g of sodium glutamate** in one litre of distilled water. Add **11,4 g** of dehydrated medium and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 115 °C for 10 minutes. Cool quickly!

Warning!

The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Prepared media	
Bottled media:	100 ml: MMG30100, 500 ml: MMG30500
Tubed media:	100 x 12 mm: MMG40010 (10 ml)
Colour:	Purple
pH (25 °C):	6,6 – 6,8

Direction: Dispense the bottled media aseptically into sterile test tubes fitted with Durham tube. Media in tubes are ready to use.

FORMULA in g/l

Lactose	10,000
Amino acids	0,064
Sodium formate	0,250
Minerals	0,111
Vitamins	0,003
Bromocresol purple	0,020
Buffers	0,950

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at 2 – 8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 24 h
<i>Escherichia coli</i> ATCC 25922		Good, with gas production, colour change to yellow	
<i>Salmonella typhimurium</i> ATCC 14028		Good, without gas production and colour change	

References: PHLS (1968) J. Hyg. Camb. 66: 67-82.

In vitro diagnostic – for professional use only!