

## MM0144

## Glutamate broth DEV

**Use and description:** A selective medium for enrichment and isolation of *Coliforms* from water samples. The medium suppress the growth of enterococci.

### **Composition per liter:**

Acid casein	1.000 g
Sodium glutamate	6.360 g
Lactose	10.000 g
Sodium formate	0.250 g
Di-potassium-H-PO <sub>4</sub>	0.900 g
L-arginine HCl	0.020 g
L-aspartic acid	0.024 g
L-cysteine HCl	0.020 g
Ammonium chloride	2.500 g
MgSO <sub>4</sub>	0.100 g
CaCl <sub>2</sub>	0.010 g
Ferric-citrate	0.010 g
Thiamine HCl	0.001 g
Nicotinic acid	0.001 g
Ca-pantothenate	0.001 g
Bromocresol purple	0.010 g

**Final pH of the ready to use medium:** 6.7 ± 0.2

**Medium preparation:** To prepare medium add 21 grams of dehydrated culture medium to 1 liter distilled water until evenly dispersed with stirring. Dispense into tubes and add Durham tube. Sterilised at 115°C for 20 minutes.

### **Quality specification:**

Dehydrated medium: homogeneous, light purple coloured, fine powder.

Ready to use medium: purple coloured, clear solution

### **Microbiological response:**

Organism	Result	Colour
<i>Escherichia coli</i> ATCC 25922	Growth	yellow

**Storage:** Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.