

# Brilliant Green Agar Modified

Medium used for the isolation and cultivation of *Salmonella* other than *Salmonella typhi*.

## • CONTENTS (Liter)

Beef Extract	5.0 g
Peptone	10.0 g
Yeast Extract	3.0 g
Disodium Phosphate	1.0 g
Monosodium Phosphate	0.6 g
Lactose	10.0 g
Sucrose	10.0 g
Phenol Red	0.09 g
Brilliant Green	0.0047 g
Agar	12.0 g
Final pH = 6.9 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 51.69 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45 - 50°C in water bath. Aseptically add 2 vials of Sulphamandelate Selective supplement (MB-S2566). Mix well. Pour into petri dishes.

### **Sulphamandelate Selective supplement**

1 vial contents (each vial is sufficient for 500 mL of medium)

Sodium Sulphacetamide	0.5 g
Sodium Mandelate	0.125 g

## • INTERPRETATION

Brilliant Green Agar Modified is a medium used for the isolation and cultivation of *Salmonella* other than *Salmonella typhi*. Beef extract, peptone and yeast extract provide nitrogen, carbon, vitamins and minerals. Phosphates are the buffering agents. Lactose and sucrose are carbohydrate sources. Phenol red is an pH indicator. Brilliant green inhibits Gram-positive organisms and many Gram-negative bacteria. Agar is the solidifying agent. Sulphamandelate selective supplement inhibits the contaminating microflora.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: pinkish beige

### Prepared medium

Appearance: clear to slightly opalescent

Color: orange-brown

Incubation conditions:  $35 \pm 2^{\circ}\text{C}$  / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Salmonella typhimurium</i>	14028	50-100	good	red colonies
<i>Salmonella enteritidis</i>	31194	50-100	good	red colonies
<i>Escherichia coli</i>	25922	50-100	partially inhibited	yellowish green colonies
<i>Proteus mirabilis</i>	25933	$\geq 10^3$	partially inhibited	red colonies
<i>Staphylococcus aureus</i>	25923	$\geq 10^3$	inhibited	-
<i>Staphylococcus aureus</i>	6538	$\geq 10^3$	inhibited	-

## • STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

## • REFERENCES

1. Edel and Kampelmacher (1968) Bull. Wld Hlth. Org. 39: 487

## • PACKAGE

Cat. No : MB-B2130 Brilliant Green Agar Modified	500 G
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