

Brilliant Green Agar

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

• CONTENTS (Liter)

Proteose Peptone	10.0 g
Yeast Extract	3.0 g
Lactose	10.0 g
Sucrose	10.0 g
Sodium Chloride	5.0 g
Phenol Red	0.08 g
Brilliant Green	0.0125 g
Agar	12.0 g
Final pH = 6.9 ± 0.2 at 25°C	

• PROCEDURE

Suspend 50.09 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Pour into petri dishes.

• INTERPRETATION

Brilliant Green Agar is a medium used for the isolation and cultivation of *Salmonella* spp. other than *S. typhi*. Proteose peptone is a source of carbon, nitrogen and essential nutrients. Yeast extract provides vitamins. Lactose and sucrose are the carbohydrate and energy sources. Sodium chloride maintains the osmotic balance. Phenol red is a pH indicator. Brilliant green is a selective agent for the inhibition of Gram-positive bacteria and coliforms. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 18 - 48 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: 36 ± 1°C / 18 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
<i>Salmonella typhimurium</i>	14028	50-100	good	red colonies
<i>Salmonella enteritidis</i>	NCCP 12236	50-100	good	red colonies
<i>Escherichia coli</i>	25922	≥10 ³	partially inhibited	yellow colonies
<i>Escherichia coli</i>	8739	≥10 ³	partially inhibited	yellow colonies
<i>Proteus mirabilis</i>	25933	≥10 ³	inhibited	-
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-
<i>Staphylococcus aureus</i>	6538	≥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. Flowers, R.S.,W. Andrews, C.W. Donnelly, and E. Koenig. (1993). Pathogens in milk and milk products, p 103-212. In Standard methods for the examination of dairy products, 16th ed.
2. Gray, (1995). Manual of Clinical microbiology, 6th ed. American Society for microbiology, p.450-456.
3. United States Pharmacopeia Convention. 1995. The United States Pharmacopeia, 23rd ed.

• PACKAGE

Cat. No : MB-B1009 Brilliant Green Agar	500 G
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• MICROBIAL CULTURE IMAGES



Salmonella typhimurium ATCC 14028 (≥500)

Incubation conditions : 36±1°C 24h