



## TECHNICAL DATA SHEET

Brilliant Green Phenol Red Lactose Sucrose (BPLS) Agar | Cat. No.

AS-1147

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# Brilliant Green Phenol Red Lactose Sucrose (BPLS) Agar

Professional technical data sheet

### PRODUCT IDENTIFICATION

Product Name	Brilliant Green Phenol Red Lactose Sucrose (BPLS) Agar
Catalog Number	AS-1147
Product Type	Selective and differential dehydrated culture medium
Application	Isolation and differentiation of presumptive Salmonella spp.
Format	Dehydrated powder
Final pH	6.9 ± 0.2 at 25 °C
HS Code	3821.00.00
AHECC / Australia Tariff	3821.00.90

### OVERVIEW

BPLS Agar is a highly selective plating medium used for the recovery of presumptive Salmonella species from food, environmental, feed, and selected clinical samples.

Brilliant green provides the main selective pressure, while lactose and sucrose fermentation are visualised through the phenol red indicator to create a rapid colony colour distinction.

The medium is commonly used after enrichment in selenite or tetrathionate broth in food microbiology workflows.

### TYPICAL FORMULA PER LITRE

Ingredient	Amount	Role
Proteose Peptone	10.0 g	Nutrient base
Yeast Extract	3.0 g	Growth factors
Lactose	10.0 g	Differential carbohydrate
Sucrose	10.0 g	Differential carbohydrate
Sodium Chloride	5.0 g	Osmotic balance
Phenol Red	0.08 g	pH indicator
Brilliant Green	0.0125 g	Selective dye
Agar	20.0 g	Solidifying agent

### APPLICATIONS



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- Isolation of *Salmonella* spp. from food, feed, and beverage samples.
- Routine post-enrichment plating in food safety laboratories.
- Environmental monitoring and QC screening in food production settings.

### DIRECTIONS FOR USE

Step	Instruction
1	Suspend 58.09 g medium in 1 L purified or distilled water.
2	Heat with frequent agitation and boil briefly until completely dissolved.
3	Avoid prolonged overheating.
4	Cool to 45–50 °C and pour sterile Petri dishes.
5	Incubate inoculated plates at 35–37 °C for 18–24 hours.

### EXPECTED RESULTS

Organism / Group	Expected Appearance
<i>Salmonella</i> spp.	Pink to red colonies
Lactose and/or sucrose fermenters	Yellow to yellow-green colonies
Atypical isolates	Confirm by biochemical / serological methods

### STORAGE

Dehydrated Medium	Store at 15–30 °C in a dry, tightly closed container protected from moisture.
Prepared Plates	Store at 2–8 °C protected from light and dehydration.
Intended Use	For laboratory use only.

### DISCLAIMER

Technical data are provided for laboratory guidance and routine product use. Final suitability should be verified within the user's own methods, matrices, and quality system.