

PRODUCT INFORMATION

Presence-Absence Broth

Cat. No. P16-110

DESCRIPTION

Presence-Absence Broth (P-A Broth) is used for the detection of coliform bacteria in water from treatment plants or distribution systems using the presence-absence coliform test. The test is a simple modification of the multiple-tube procedure. One test sample (100 mL) is inoculated into a single culture bottle to obtain qualitative information on the presence or absence of coliforms, through the presence or absence of lactose fermentation.

FORMULA (g/L)

Beef Extract	3.0 g	Disodium Phosphate	1.35 g
Lactose	7.46 g	Monopotassium Phosphate	1.35 g
Tryptone	9.83 g	Sodium Lauryl Sulfate	0.5 g
Gelatin Peptone	5.0 g	Bromocresol Purple	0.0085 g
Sodium Chloride	2.46 g		

Final pH: 6.8 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Prepare triple strength concentration by mixing 91.5 grams of the medium in one liter of purified water. Mix and warm gently to dissolve completely. Dispense 50 mL aliquots into 250 mL screw-cap milk dilution bottles. autoclave at 121°C for 12 minutes. Cool to room temperature and add 100 mL of water sample.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing and light beige.
2. Visually the prepared medium is clear and reddish purple.
3. Expected cultural response after 24-72 hours at 35±2 °C.

ORGANISM	RESULT
<i>Enterococcus faecalis</i> ATCC 29212	Growth – Slight yellow to purple
<i>Escherichia coli</i> ATCC 25922	Good Growth – Yellow (w/ or w/o gas)
<i>Escherichia coli</i> ATCC 33849	Good Growth – Yellow (w/ or w/o gas)
<i>Pseudomonas aeruginosa</i> ATCC 27853	Inhibited

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.