

PE-2 BROTH

Medium for detection and cultivation of mesophilic anaerobic spore formers in specimens collected from food processing plants.

TYPICAL FORMULA (g/L)

	Peptone	20.0		
	Yeast Extract	3.0		
	Bromocresol Purple	0.04		
	Final pH 6.9 ± 0.2			

DESCRIPTION

PE-2 BROTH is a dehydrated medium, described by Folinazzo and Troy and recommended by APHA, for detection and cultivation of mesophilic anaerobic spore formers in specimens collected from food processing plants. These organisms mainly include *Clostridium spp*.

PRINCIPLE

Peptone provides amino acids and proteins while yeast extract is a source of aminoacids and vitamins of group B for clostridial growth. Bromocresol Purple is the pH indicator.

Clostridial growth range covers the temperature of the normal storage of canned and other processed foods including refrigerated storage of cured meats and hence these anaerobes are important in the spoilage of low- acid foods packed in the hermetically sealed containers.

PREPARATION

Suspend 23.0 g of powder in 1L of distilled or deionized water. Heat until completely dissolved. Dispense into final tubes. Sterilize in autoclave at 121 °C for 15 minutes.

TECHNIQUE

Inoculate the sample in the tube and add 2-3 drops of vaselin oil. Incubate at 30-35°C for 72 hours or up to 7 days if desired as some spores germinate slowly.

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident. Store the prepared medium at 2-8 °C.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

- 1. Folinazzo J.F. and Troy V.S. 1954. Food Technol. 8: 280.
- 2. Vanderzant C. and Splittstoesser D. (Eds) 1992. Compendium for the Microbiological Examination of Foods, 3rd ed., APHA, Washington DC.





PRODUCT SPECIFICATIONS

NAME PE-2 BROTH

PRESENTATION

Dehydrated medium

STORAGE

10-30 °C

PACKAGE						
Code	Content	Packaging				
610346	500 g	500 g of powder in plastic bottle				
620346	100 g	500 g of powder in plastic bottle				

pH OF THE MEDIUM

6.9± 0.2

USE

PE- 2 BROTH is a dehydrated medium, described by Folinazzo and Troy and recommended by APHA, for detection and cultivation of mesophilic anaerobic spore formers in specimens collected from food processing plants. These organisms mainly include Clostridium spp.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Dehydrated medium Appearance: free-flowing, homogeneous. Colour: beige Prepared medium Appearance: clear Colour: purple

SHELFLIFE

4 years

QUALITY CONTROL

Control of general characteristics, label and print 1.

Sterility control 2.

7 days at $25 \pm 1^{\circ}$ C, in aerobiosis 7 days at $36 \pm 1^{\circ}$ C, in aerobiosis

3. Microbiological control Inoculum for productivity: 10-100 UFC/ml Inoculum for selectivity: 104-105 UFC/ml Inoculum for specificity: $\leq 10^4$ UFC/ml

Incubation conditions: 18-24 hours at 30-35°C

Microorganisms		Growth
Clostridium sporogenes	ATCC 19404	Good
Proteus mirabilis	ATCC 25933	Good
Escherichia coli	ATCC 25922	Good
Staphylococcus aureus	ATCC 25923	Good
Pseudomonas aeruginosa	ATCC 27853	Good
Enterococcus faecalis	ATCC 19433	Good

TABLE OF SYMBOLS

	Manufacturer	LOT	Batch code	**	Keep away from heat	Σ	Contains sufficient for <n> tests</n>	
REF	Catalogue number	ľ	Temperature limitation	Σ	Use by	i	Caution, consult accompanying documents	



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