



PHENYLALANINE AGAR

Medium for Enterobacteria differentiation.

TYPICAL FORMULA (g/L)

Yeast Extract.....	3.0
Disodium Phosphate.....	1.0
DL-Phenylalanine.....	2.0
Sodium Chloride.....	5.0
Agar.....	15.0
Final pH=7.3 ± 0.2	

DESCRIPTION

PHENYLALANINE AGAR is a medium for Enterobacteria differentiation.

PRINCIPLE

The phenylalanine serves as the substrate for enzymes which are able to deaminate it to form phenylpyruvic acid. The addition of 3-5 drops of a 10% aqueous ferric chloride solution to the cultures following incubation results in the appearance of a light to deep green color (positive reaction) or no color change (negative reaction).

TECHNIQUE

Inoculate the medium with the specimen by streaking the slope using a sterile loop to ensure an adequate dispersion of the organisms. Tubes are incubated aerobically at 36±1 °C for 18-24 hours. After incubation add 3-5 drops of a 10% aqueous ferric chloride solution to the cultures.

INTERPRETATION of RESULTS

A light to deep green color represents a positive reaction, no color change represents a negative reaction: in a positive reaction any phenylpyruvic acid present will react with the ferric salt in the reagent to give a green color.

STORAGE

15-25 °C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

For laboratory use.

The product doesn't contain dangerous substances according to directives 1999/45/CE and 2001/60/CE or for which exist recognized exposure limits.

DISPOSAL of WASTE

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

REFERENCES

1. *Ann. Inst. Pasteur.* (1954) 87: 375-386.
2. *Pub. Hlth Lab.* (1957) 15: 153.



Liofilchem s.r.l Bacteriology Products

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PRODUCT SPECIFICATIONS

NAME

PHENYLALANINE AGAR

PRESENTATION

Ready-to-use glass tubes containing 10+/-1 ml.

PACKING

Code	Content	Packaging
30085	10 tubes x 10 ml	10 tubes in cardboard box

pH OF THE MEDIUM

7.3 ± 0.2

USE

PHENYLALANINE AGAR is a medium for Enterobacteria differentiation.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE OF THE MEDIUM

Light amber, slightly opalescent.

SHELF LIFE

1 year

QUALITY CONTROL

- Control of general characteristics, label and print.
- Sterility control:
7 days at 25 ± 1 °C, in aerobiosis.
7 days at 36 ± 1 °C, in aerobiosis.
- Microbiological control:
Inoculum for productivity: 10-100 UFC/ml.
Inoculum for selectivity: 10⁴-10⁵ UFC/ml.
Inoculum for specificity: ≤ 10⁴ UFC/ml.
Incubation conditions: 18-24 h at 36 ± 1 °C.

Microorganism		Growth	Reaction
<i>Escherichia coli</i>	ATCC 25922	Good	-
<i>Enterobacter aerogenes</i>	ATCC 13048	Good	-
<i>Proteus mirabilis</i>	ATCC 25933	Good	+
<i>Proteus vulgaris</i>	ATCC 13315	Good	+

TABLE of SYMBOLS

Symbol	Meanings
REF	Catalogue number
IVD	In vitro Diagnostic Medical Device
	Manufacturer
	Temperature limitation
	Use by
LOT	Batch code
	Consult accompanying documents



IVD



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