

# PHENYLALANINE AGAR

Medium for eneterobacteria differentiation.

TYPICAL FORMULA (q/l)

Yeast Extract	3.0
Disodium Phosphate	1.0
Sodium Chloride	5.0
DL-Phenylalanine	2.0
Agar	15.0
Final pH 7,3 ± 0.2 at 25 °C	

### DESCRIPTION

PHENYLALANINE AGAR is a medium for Enterobacteria differentiation.

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The phenylalanine serves as the substrate for enzymes which are able to deaminate it to form phenylpiruvic 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).

## **PREPARATION**

Melt the content of the bottle in a boiling water-bath at 100°C (loosing the caps partially unscrewed) until completely dissolved. Cool to 45-50°C, mix well avoiding the formation of bubbles and aseptically distribute into Petri dishes. Allow the medium to solidify. Store the plates in tightly closed containers.

#### **TECHNIQUE**

Inoculate the medium with the specimen by streaking the slope using a sterile loop to ensure an adeguate 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 phenylpiruvic acid present will react with the ferric salt in the reagent to give a green color.

#### STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

#### **WARNING and PRECAUTIONS**

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of  $\geq$ 1%. The product is designed for *In vitro* diagnostic use and 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. Ann. Inst. Pasteur. (1954) 87: 375-386.
- 2. Pub. Hlth Lab. (1957) 15: 153.





# **PRODUCT SPECIFICATIONS**

NAME

#### PHENYLALANINE AGAR

## PRESENTATION

Glass bottles containing 200 ml of medium (code 412190).

#### **PACKAGING**

Code	Content	Packaging
412170	6 bottles x 200 ml	6 bottles in cardboard box

# pH OF THE MEDIUM

 $7.3 \pm 0.2$ 

#### 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.

# SHELFLIFE

1 year

# QUALITY CONTROL

- 1. Control of general characteristics, label and print
- 2. Sterility control

7 days at 25  $\pm$  1°C, in aerobiosis 7 days at 36  $\pm$  1°C, in aerobiosis

3. Microbiological control

Inoculum for productivity: 10-100 UFC/ml Inoculum for selectivity:  $10^4$ - $10^5$  UFC/ml. Inoculum for specificity:  $\le 10^4$  UFC/ml. Incubation conditions: 24 h at  $36 \pm 1^{\circ}$ C

Microorganism	Growth	Reaction	
Escherichia coli	ATCC 25922	Good	1
Enterobacter aerogenes	ATCC 13048	Good	1
Proteus mirabilis	ATCC 25933	Good	+
Proteus vulgaris	ATCC 13315	Good	+

# TABLE OF SYMBOLS

IVD In vitro Diagnostic Medical Device	LOT Batch code	Manufacturer	Contains sufficient for <n> tests</n>
REF Catalogue number	Temperature limitation	Use by	Caution, consult accompanying documents

