

PHENYLETHYL ALCOHOL (PEA) AGAR

A selective medium for the isolation of Gram-positive aerobe and anaerobe bacteria.

Dehydrated media	
Code number:	500 g: PED20500, 5 kg: PED25000
Packaging of 500 g:	500 g agar base + 28 ml phenylethanol
Packaging of 5 kg:	5 kg agar base + 280 ml phenylethanol
Appearance of agar base:	Yellowish, homogeneous hygroscopic powder
Appearance of supplement:	Water clear liquid with unpleasant smell
pH before autoclaving (25 °C):	7,1 – 7,5

Direction: Suspend **45 g** in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Add **2,5 ml of Phenylethanol Supplement**. Mix well and sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically **50 ml of sterile defibrinated sheep blood**. Mix well before pouring.

Prepared media	
Bottled media bases:	100 ml: PED30100, 500 ml: PED30500
Plated media:	55 mm: PED50055, 90 mm: PED50090
Colour of bottled media bases:	Yellowish
Colour of plated media:	Ruby red
pH (at 25 °C):	7,2 – 7,4

Direction: Supplement with blood the melted bottled media bases according to the direction of the dehydrated media and dispense aseptically into sterile Petri-dishes. Media in Petri-dishes are ready to use.

FORMULA FOR ONE LITRE OF COMPLETE MEDIUM

Peptones	24,500 g
Sodium chloride	5,000 g
Anaerobe vitamins	0,415 g
Phenylethanol	2,500 ml
Agar	15,000 g
Sterile defibrinated sheep blood	50,000 ml

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the supplements and the bottled media protected from light at room temperature. Store the plated media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 24 h
<i>Streptococcus pyogenes</i> ATCC 19615		Good (under micro-aerobic conditions)	
<i>Bacteroides fragilis</i> ATCC 25285		Good (under anaerobic conditions)	
<i>Proteus mirabilis</i> ATCC 29906		Inhibited	

References: Brewer and Lilley (1953) J. Am. Pharm. Assoc. 42: 6.

In vitro diagnostic – for professional use only!