

## BACILLUS CEREUS (PEMBA) AGAR BASE

A selective and differential medium for the isolation and enumeration of *Bacillus cereus* according to ISO 21871.

Dehydrated media	
Code number:	500 g: BCA20500, 5 kg: BCA25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,0 – 7,4

**Direction:** Suspend **40 g** in 950 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically **50 ml of Sterile Egg Yolk Polymixin (PEMBA) Emulsion (EYP80050-01)**. Mix well before pouring.

Prepared media	
Bottled media bases:	100 ml: BCA30100, 500 ml: BCA30500
Plated media:	55 mm: BCA50055, 90 mm: BCA50090
Colour of bottled media bases:	Green, transparent
Colour of plated media:	Green, homogeneous turbid
pH (25 °C):	7,1 – 7,3

**Direction:** Supplement 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 in g/l

Casein peptone	1,00
D-Mannitol	10,00
Sodium pyruvate	10,00
Sodium chloride	2,00
Magnesium sulphate + 7 H <sub>2</sub> O	0,10
Bromothymol blue	0,12
Sodium phosphate, dibasic	2,50
Potassium phosphate, monobasic	0,25
Agar	14,00

**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 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>Bacillus cereus</i> ATCC 11778		Good, blue colonies with precipitate halo	
<i>Bacillus subtilis</i> ATCC 6633		Moderate, yellow colonies without halo	
<i>Escherichia coli</i> ATCC 25922		Inhibited	

**References:** Holbrook and Anderson (1980) Can. J. Microbiol. 26: 753.  
ISO 21871: 2006

**In vitro diagnostic – for professional use only!**