

# Product Specification Sheet

## *Polymyxin Egg Yolk Mannitol Bromothymol blue Agar (PEMBA)*

Intended Usage: A selective and diagnostic medium for the isolation and enumeration of *Bacillus cereus*.

For professional use only.

<b>PO5048A</b>	
Version: 03	Revision Date: 23 April 2020

**Thermo Scientific™ Polymyxin Egg Yolk Mannitol Bromothymol blue Agar (PEMBA)**

Form of Product	Poured plate
Storage	2 – 12°C
Filling weight	19.0 ± 2.0g
Packaging	10 plates wrapped in film
pH	7.2 ± 0.2
Appearance	Green, Semi-opaque
Shelf life	14 weeks
Intended Usage	A selective and diagnostic medium for the isolation and enumeration of <i>Bacillus cereus</i> . For professional use only.
Technique	Depends on the different methods. For information see Specification Sheet for Thermo Scientific™ Oxoid™ CM0617 / SR0099 / SR0047.

Typical formulation*	g/l
Peptone	1.0
Mannitol	10.0
Sodium chloride	2.0
Magnesium sulphate	0.1
Disodium hydrogen phosphate	2.5
Potassium dihydrogen phosphate	0.25
Bromothymol blue	0.12
Sodium pyruvate	10.0
Agar	14.0
Polymixin B	100 000 IU
Egg Yolk	50.0 ml

\* Adjusted as required to meet performance standards.

**Quality Control**

1. Control for general characteristics, labelling and printing.
2. Contamination check  
≥ 72 h @ 30 – 34 °C, aerobic
3. Microbiological control

Positive Control	Growth
Inoculum 50 – 120 colony forming units (cfu) Incubation conditions: 18 – 48 h @ 37 ± 1°C	
<i>Bacillus cereus</i> ATCC® 11778™ <small>(WDCM 00001)</small>	3 – 5 mm, peacock blue colonies with zone.
Colony counts shall be ≥ 50% of the control medium (Tryptone Soya Agar)	

Specificity Control	Growth
Inoculum 10 <sup>3</sup> -10 <sup>4</sup> cfu Incubation conditions: 40 – 48 h @ 37 ± 1°C	
<i>Bacillus subtilis</i> ATCC® 6633™ <small>(WDCM 00003)</small>	Growth of yellow, shiny colonies.

Negative Control	Growth
Inoculum 10 <sup>4</sup> -10 <sup>5</sup> cfu Incubation conditions: 40 – 48 h @ 37 ± 1°C	
<i>Escherichia coli</i> ATCC® 25922™ <small>(WDCM 00013)</small>	Complete inhibition (≤ 10 cfu).

Tested in accordance with ISO 11133.  
The formulation of this medium conforms to DIN10198-1.

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