

# PPLO Agar

REF.	Pack size
1408 001	100 gm
1408 002	500 gm

# **Intended Use**

For the isolation and culture of PPLO microorganisms (Mycoplasma) in clinical specimens as sputum, pleural fluid,CSF and vaginal discharge.

## Background

PPLO AGAR is used in the study of the growth requirements of Mycoplasma, along with the identification and cultivation of this organism. PPLO stands for Pleuro Pneumonia-Like Organisms and was described by Morton, Smith and Leberman.

#### Principle

Peptone and Beef heart infusion provide the nutrients for growth; nitrogen, vitamins, minerals and amino acids, while the Sodium chloride provides the osmotic balance

Components	gm/Liter
Peptone	10.0
Sodium chloride	5.0
Beef heart infusion	6.0
Agar	14.0

Final pH ( at 25°C) 7.8 ±0.2

# Preparation, Storage and Stability

Store the dehydrated medium at 10-30°C and use before the expiry date on the label.Store the prepared medium at 2-8°C After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

#### Procedure

- 1. Suspend 35 grams of the powder in one liter of distilled water. Mix well.
- 2. Boil with frequent agitation to completely dissolve the powder.
- 3. Autoclave at 121°C for 15 minutes.
- 4. Cool to 45-50°C
- 5- Homogenize gently and dispense into Petri dishes

#### SYMBOLS IN PRODUCT LABELLING

EC REP	Authorised Representative	ł	Temperature Limitation
IVD	For in-vitro diagnostic use	Ē	Use by/Expiration Date
DEE	Batch Code/Lot number		CAUTION. Consult instructions
RET	Catalogue Number		for use
I	Consult instructions for use	***	Manufactured by

## **Quality Control**

## Appearance

1-Dehydrated Appearance	e : Cream to yellow homogeneous free flowing powder
2- Prepared Appearance	: Yellow coloured clear to slightly opalescent gel
3-Cultural Response	: after 7 days at 35± 2°C
<b>Organisms (ATCC)</b> Mycoplasma bovis Mycoplasma gallinarium	<b>Growth</b> Good Good

Mycoplasma gallinarium Good Mvcoplasma pneumoniae Streptococcus pneumoniae Good

## Interpretation of the results

1-Examine PPLO Agar after 4 to 7 days of incubation. Mycoplasma colonies are round, 0.01 to 0.5 mm in diameter with a dense center and a less dense periphery producing a "fried egg" appearance

#### Precautions

1-Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

# Bibliography

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