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Peptone Agar

Peptone Agar is Highly nutritious medium that can support growth of non-fastidious microorganism.

REF: BS.1/NZ01.100.0100	100 Gram	REF: BS.1/NZ01.250.0250	250 Gram
REF: BS.1/NZ01.500.0500	500 Gram		

PRINCIPLE AND INTERPERTATION

Peptone Agar is recommended for general cultivation of wide variety of microorganisms. As it is rich in nutrients can also serve as excellent basal medium for glucose blood agar. With addition of suitable indicator, this medium can be used for the detection and cultivation of thermophilic organisms, associated with flat sour spoilage in Canned goods. Agrobacterium species can also grow abundantly on media containing dextrose as carbohydrate source. Peptone provides nitrogenous nutrients especially amino acids, and peptides. The presence of sodium chloride helps to maintain the osmotic balance.

MEDIA COMPOSITION

Item	Formula per liter of medium
Peptone	5.00 gm
Agar	15.00 gm

Final pH (at 25ºC) 7.2 ± 0.2 ** Formula adjusted, standardized to suit performance parameters.

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.
Good Laboratories practices using appropriate precautions should be followed in:Wearing personnel protective equipment (overall, gloves, glasses,).

- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.
- Respect country requirement for waste disposal.
  S56: dispose of this material and its container at hazardous or special waste collection point.
  S57: use appropriate container to avoid environmental contamination.
  S61: avoid release in environment.

For further information, refer to the Peptone Agar material safety data sheet.

STORAGE AND STABILITY

BioScien Peptone Agar Stored between 10-30°C in a tightly closed container and the prepared medium at 20-30°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period. Store dehydrated powder in a dry place in tightly-sealed containers at 2-25°C. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label. Product performance is best if used within stated expiry period.

PREPARATION

Suspend 20.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well & pour in sterile petri plates.

Deterioration

The color of peptone agar ***BioScien*** cream to yellow colored, homogeneous, free flowing powder. Prepared media Light yellow coloured clear to slightly opalescent gel forms in Petri plate.

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile petri dishes
- Incubator
- Autoclave

PERFORMANCE CHARACTERISTICS

Organisms (ATCC)	Growth
Agrobacterium tumefaciens ATCC 23308	Good -luxuriant
Escherichia coli ATCC 25922	Good-luxuriant
Pseudomonas aeruginosa ATCC 27853	Good-luxuriant
Staphylococcus aureus subsp. aureus ATCC 25923	Good-luxuriant
Enterococcus faecalis ATCC 29212	Good-luxuriant

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control still out of range please contact ***BioScien*** technical support.

REFERENCE

1. Atlas, R.M. (3rd Ed.), 2004, Handbook of Microbiological Media, CRC Press LLC.

2. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Editio

3. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

SYMBOLS IN PRODUCT LABELLING			
IVD	For in-vitro diagnostic use		Number of <n> test in the pack
LOT	Batch Code/Lot number		Caution
REF	Catalogue Number		Do not use if package is damaged
	Temperature Limitation		Consult Instruction for use
	Expiration Date		
	Manufactured by		