ARENA BioScien

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Peptone bacteriological

Peptone, Bacteriological confer nutritional benefit, especially at low dilution rates, and is recommended to support good growth of wide variety of microorganisms

PRINCIPLE AND INTERPERTATION

Peptone, Bacteriological confer nutritional benefit, especially at low dilution rates, and is recommended to support good growth of wide variety of microorganisms, for identification of bacteria by performing various biochemical tests. It can also be used for commercial production of enzymes, vaccines, antibiotics, steroids and other products.

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, Bacteriological material safety data sheet.

STORAGE AND STABILITY

BioScien Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile petri dishes
- Incubator
- Autoclave

PERFORMANCE CHARACTERISTICS

Appearance : Light yellow to brownish yellow homogeneous free flowing powder characteristic but not putrescent

Solubility : Freely soluble in distilled/purified water, insoluble in alcohol.

Clarity : 2% w/v aqueous solution is clear without any haziness after autoclaving at 15 lbs pressure (121ºC) for 15 minutes.

pH : pH of 2% w/v aqueous solution at 25ºC 6.1-7.1

Microbial Load:

Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35ºC for not less than 3 days Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25ºC for not less than 5 days.

Test for pathogens : 1. Escherichia coli- Absent/gram of sample 2. *Salmonella* species- Absent/10 gram of sample 3. *Pseudomonas aeruginosa*- Absent/gram of sample 4. *Staphylococcus aureus*- Absent/gram of sample 5. *Candida albicans*- Absent/gram of sample 6. *Clostridia*- Absent/gram of sample.

Indole Test : Tryptophan content: Passes

Cultural response : Cultural response observed after an incubation at 35 - 37°C for 18-48 hours by preparing Malt Extract Agar (M137) using Mycological Peptone as an ingredient

Organism	Growth
Escherichia coli ATCC 25922	Luxuriant
Pseudomonas aeruginosa ATCC 27853	Luxuriant
Staphylococcus aureus subsp.aureus ATCC 25923	Luxuriant

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 . Robertson, 1916, J. Pathol. Bacteriol., 20:327.

2. Bureau of Indian Standards IS : 5887 (Part II) 1976, Second Reprint December 1994.

3. Bureau of Indian Standards IS : 5887 (Part IV) 1976.

4. Lenette and others (Eds.), 1985, Manual of Clinical Microbiology, 4th ed., ASM, Washington,D.C.

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	