

Dextrose peptone broth

Dextrose Peptone Broth is recommended for the cultivation of fastidious organisms, enumeration of thermophilic bacteria from canned foods and for routine sterility testing.

REF: BS.1/GP01.100.0100
REF: BS.1/ GP01.500.0500

100 Gram
500 Gram

REF: BS.1/ GP01.250.0250

250 Gram

CLINICAL SIGNIFICANCE

Dextrose Peptone Broth is formulated as per the procedures described by Williams (1) for the cultivation of microorganisms that are fastidious, or present in small numbers and also for the enumeration of thermophilic bacteria responsible for flat-sour spoilage of canned foods. This medium is recommended by AOAC for the routine cultivation purposes (2).

METHOD PRINCIPLE

Dextrose is the readily available energy source for most of the organisms. Dextrose Peptone Broth can also be used for routine sterility testing. Supplementation of the medium with blood provides additional nutrients.

MEDIA COMPOSITION

Item	Formula per liter of medium
Peptic digest of animal tissue	20.00 gm
Dextrose	10.00 gm
Sodium chloride	5.000 gm

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 Dextrose peptone broth material safety data sheet.

STORAGE AND STABILITY

BioScien Dextrose peptone broth should be stored between 10-30°C in a firmly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to avoid lump development due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in a 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.

Final pH 7.2 ± 0.2 at 25°C

PREPARATION

- Suspend 35 grams in 1000 ml distilled water.
- Adjust pH to 7.2 ± 0.2 at 25°C
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Deterioration

The color of **BioScien** Dextrose peptone broth is Cream to light yellow homogeneous free flowing powder. Prepared Media is Light yellow coloured, clear to slightly opalescent solution in tubes. If there are any physical changes for powder or signs of deterioration (shrinking, cracking, or discoloration), and contaminations for hydrated media, discard the medium.

SPECIMEN

Food samples; Water and sewage samples

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile tubes
- Incubator
- Autoclave

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact **BioScien** technical support.

Performance Characteristics

Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 48 hours.

Microorganisms	Growth
<i>Escherichia coli</i> ATCC 25922	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	luxuriant

REFERENCES

1. Williams O.B., 1936, Food Res., 1(3):217.
2. Association of Official, Analytical, Chemists, 1978, Bacteriological Analytical Manual, 5th Ed, AOAC, Washington, D.C.

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



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