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Description automatically generated**

**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: V.1/DPB01.100 100 Gram  REF: V.1/DPB01.500 500 Gram | REF: V.1/DPB01.250 250 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  Dextrose | 20.00 gm  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 **Lab.Vie** 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 **Lab.Vie** technical support.

**Performance Characteristics**

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

|  |  |
| --- | --- |
| Microorganisms | Growth |
| Escherichia coli ATCC 25922 | luxuriant |
| Pseudomonas aeruginosa ATCC 27853 | luxuriant |
| Staphylococcus aureus ATCC 25923 | luxuriant |
| Streptococcus pyogenes 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 | | | |
| Number of <n> test in the pack |  | For in-vitro diagnostic use | IVD |
| Caution |  | Batch Code/Lot number | LOT |
| Do not use if package is damaged |  | Catalogue Number | REF |
| Consult Instruction for use |  | Temperature Limitation |  |
|  |  | Expiration Date |  |
|  |  | Manufactured by |  |

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