

# **Technical Information**

### **Dextrose Peptone Broth**

### Product Code: DM 1650

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

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Ingredients	Gms / Litre
Peptic digest of animal tissue	20.000
Dextrose	10.000
Sodium chloride	5.000
Final pH ( at 25°C)	7.2±0.2
**Formula adjusted, standardized to suit performance parameters	

## **Principle & Interpretation**

Dextrose Peptone Broth is formulated by Williams <sup>(1)</sup> 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 <sup>(2)</sup>. 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.

### Methodology

Suspend 35 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C. Mix well before pouring into sterile Petri plates.

## **Quality Control**

#### **Physical Appearance**

Cream to light yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light yellow coloured, clear to slightly opalescent solution in tubes

#### Reaction

Reaction of 3.5% w/v aqueous solution at 25°C. pH: 7.2±0.2

pH Range 7.00-7.40

#### Cultural Response/Characteristics

DM1650: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 25922	50-100	luxuriant
Pseudomonas aeruginosa ATCC 27853	50-100	luxuriant
Staphylococcus aureus ATCC 25923	50-100	luxuriant
Streptococcus pyogenes ATCC 19615	50-100	luxuriant





### Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label. **Prepared Media:** 2-8<sup>0</sup> in sealable plastic bags for 2-5 days.

Further Reading
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1.	Williams	O.B.,	1936,	Food	Res.,	1(3):217.
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<ol><li>Association of Official Analytical Chemists, 1978, Bacteriological Analytical Manual, 5th ed., AOAC, Washir</li></ol>
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### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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