OXALIS Diagnostics Pvt. Ltd.

Technical Data

Peptone Water. 100 g / 500 g

Used as a growth medium and as the basis of carbohydrate fermentation media. Also used in performing the indole test.

Product Presentation:

Cat No.	Product description	Pack Size
11160010100	Peptone Water	100 Gram
11160010100	Peptone Water	500 Gram

Principle

Peptone water is composed of peptone and sodium chloride. Peptone, serves the simplest source of the nitrogen, carbon and other growth factors such vitamins. Sodium chloride maintains the osmotic balance. Peptone is rich in tryptophan and used for studying indole production. The production of indole can be detected by using Kovacs or Ehlrich reagent. Peptone water is also utilized as a base for carbohydrate fermentation studies with the addition of sugar and indicators such as phenol red, bromocresol purple or bromothymol blue.

Composition

Ingredients	Grams / Litre
Peptone	10.00
Sodium Chloride	5.00

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

Type of specimen

Pharmaceutical samples, clinical and non-clinical samples.

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 15.00 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ Dispense as required.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

FACTORY & OFFICE
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Quality Control

Dehydrated Appearance: Beige colored free flowing, homogeneous powder

Prepared Appearance: Light amber color clear solution.

Growth Promotion Test: Tryptophan production is detected after incubation at 35-37°C for 18-24 hours. The tryptophan is detected by observing red ring at the interface of the medium on addition of Kovac's reagent.

Cultural Response :

Organism	Type Culture	Growth	Tryptophan production
Staphylococcus aureus	ATCC 25923	Good	Negative reaction, no red ring at the interface
Escherichia coli	ATCC 8739	Good	Positive reaction, red ring at the interface

Interpretation of Results

Acid is produced when carbohydrates are fermented which is indicated by a pink colour in the medium and gas production is detected by formation of gas bubbles in the Durham's tubes.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must be ensure safe disposal of used or unusable preperation of the products.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.

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