



Peptone, Bacteriological (Gamma irradiated)

RM001G

Intended use

Peptone, Bacteriological (Gamma irradiated) is sterilized by gamma irradiation to eliminate bacterial flora which suits for fill test or directly in manufacturing process for enzymes, vaccines, antibiotics and other products. Also, it is used as culture media ingredient in variety of media.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Quality Control

- **Appearance** : Light yellow to brownish yellow homogeneous free flowing powder characteristic odour but not putrescent
- **Solubility** : Freely soluble in distilled/purified water, insoluble in alcohol.
- **Clarity** : 2% w/v aqueous solution remains clear and neutral without any haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- **pH** : pH of 2% w/v aqueous solution at 25°C 6.10 - 7.10
- **Sterility testings** : No growth is observed after 14 days for Bacteria at 30-35°C and for fungi at 20-25°C.
- **Cultural response** : Cultural response observed after incubation at 35-37°C for 18-48 hours by preparing Nutrient Agar (M001), using Peptone, Bacteriological (Gamma irradiated) as an ingredient.

Organism	Growth
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853 (WDCM 00025)	Luxuriant

Organism	Growth
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923(WDCM 00034)	Luxuriant
<i>Salmonella enterica</i> subsp. <i>enterica</i> Typhi ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Salmonella enterica</i> subsp. <i>enterica</i> <i>Enteritidis</i> ATCC 13076 (WDCM 00030)	Luxuriant
<i>Salmonella enterica</i> subsp. <i>enterica</i> Typhimurium ATCC 14028 (WDCM 00031)	Luxuriant
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> ATCC 9610 (WDCM 00038)	Luxuriant
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> ATCC 23715 (WDCM 00160)	Luxuriant

Chemical Analysis :

Total Nitrogen : ≥ 13.50 %

Amino Nitrogen : ≥ 3.00 %

Sodium Chloride : ≤ 5.00 %

Loss on drying : ≤ 5.00 %

Residue on Ignition : ≤ 15.00 %

Storage and Shelf Life

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. Seal the container tightly after use.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.



Storage temperature



Do not use if package is damaged



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Disclaimer :

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