

## 3501 -B. MEAT EXTRACT PASTE (For General Purpose, Bacteriological)

### INTENDED USE

B. Meat extract paste are used in preparing microbiological culture media

### PRODUCT SUMMARY AND EXPLANATION

B. Meat extract paste is intended to replace aqueous infusion of meat in microbiological culture media. It is frequently used at a concentration of 0.3 to 1.0% in culture media, although concentrations may vary depending on the nutritional requirements for the medium formulation. It may be relied upon for biochemical studies, particularly fermentation reactions, because of its independence from fermentable substances that would interfere with the accuracy of such determinations.

### PRINCIPLE

B. Meat extract paste is infusion of beef and provide an undefined source of nutrients. Beef Extract products are not exposed to the harsh treatment used for protein hydrolysis, so they can provide some of the nutrients lost during peptone manufacture. Beef Extract Powder is mixtures of peptides and amino acids, nucleotide fractions, organic acids, minerals and some vitamins. The function of B. Meat extract paste products can be described as complementing the nutritive properties of peptone by contributing minerals, phosphates, energy sources and those essential factors missing from peptone.

### INSTRUCTION FOR USE

B. Meat extract paste is a dehydrated extract of beef tissue for use in preparing microbiological culture media in a laboratory setting. Beef Extract Powder is not intended for use in the diagnosis of disease or other conditions in humans. It is prepared and standardized for use in microbiological culture media, where it is generally used to replace infusion of meat. Culture media containing B. Meat extract powder Powder are recommended for use in bacteriological examination of water, milk, and other materials, where uniform composition of media is important. It is relied upon for biochemical studies, particularly fermentation reactions because of its independence from fermentable substances.

### QUALITY CONTROL SPECIFICATIONS

|                               |   |                             |
|-------------------------------|---|-----------------------------|
| Appearance                    | : | Dark tan colour thick paste |
| Solubility (2% soln. at 25°C) | : | Soluble in distilled water. |
| Clarity (2% Soln. at 121°C)   | : | Clear solution. No ppt.     |
| pH (2% Soln. at 25°C)         | : | 6.5- 7.5                    |
| Total Solid contents          | : | NLT – 65.0%                 |
| Total Nitrogen (DWB)          | : | NLT – 7.0%                  |
| α-Amino Nitrogen              | : | NLT – 1.5%                  |
| Total Ash                     | : | NMT – 8.0%                  |
| Chloride (as NaCl )           | : | NMT – 4.0%                  |
| Indole Test                   | : | Positive                    |
| Microbial Test                | : | Passes Test                 |
| Growth Promotion Test         | : | Passes Test                 |

### INTERPRETATION

Cultural Characteristic observed in 2%Beef Extract Paste and 1.5% agar after incubation at 35-37°C for 18-24 hours.

| Microorganism         | ATCC  | Inoculum (CFU/ml) | Growth           |
|-----------------------|-------|-------------------|------------------|
| Staphylococcus aureus | 25923 | 50-100            | Good - Luxuriant |



|                        |       |        |                  |
|------------------------|-------|--------|------------------|
| Escherichia coli       | 25922 | 50-100 | Good - Luxuriant |
| Pseudomonas aeruginosa | 27853 | 50-100 | Good - Luxuriant |
| Bacillus subtilis      | 6633  | 50-100 | Good - Luxuriant |
| Enterococcus faecalis  | 29212 | 50-100 | Good - Luxuriant |
| Streptococcus pyogenes | 19615 | 50-100 | Good - Luxuriant |

#### PACKAGING

Standard packing is 500gm & 50.0 kg in plastic bottle & Drum . After packing tightly closed in a dry and well- ventilated place.

#### STORAGE

Store at room temperature in cool place, Keep container tightly closed in a dry and well-ventilated place 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 of ignition. Seal the container tightly after use.

**Product Deterioration:** Do not use product if any contamination, discoloration or other sign of deterioration is found.

#### DISPOSAL

After use, contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

#### REFERENCES

1. Prokofeva, Miroshnichenko, Kostrikina, Chernyh, Kuznetsov, Tourova and Bonch-Osmolovskaya. 2000. Int. J. Syst. Evol. Microbiol. 50: Pt 6:2001.
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3. Clesceri, Greenberg and Eaton (ed.). 1998. Standard methods for the examination of water and wastewater, 20th ed. American Public Health Association, Washington, DC.
4. U.S. Food and Drug Administration. 1995. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.
5. Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
6. Horwitz (ed.). 2000. Official methods of analysis of AOAC International , 17th ed. AOAC International, Gaithersburg, Md.
7. U.S. Department of Agriculture. 1998. Microbiology laboratory guidebook, 3rd ed. Food Safety and Inspection Service, USDA, Washington, D.C.
8. Cote. 1999. In Flickinger and Drew (ed.), Encyclopedia of bioprocess technology: fermentation, biocatalysis, and bioseparation. John Wiley & Sons, Inc., New York, N.Y. 10. Bridson and Brecker. 1970. In Norris and Ribbons (ed.), Methods in microbiology, vol. 3A. Academic Press, New York.

QTY.

Quantity

LOT/  
B. NO.

Lot / Batch Number



Temperature Unit



Best Before



QR  
Code

REF

Catalogue No.



Consults Instructions for use :



Manufacturer

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**

Revision: 05<sup>th</sup> Oct. 2025

