

# 4508-MEAT EXTRACT(Type-1) (Bacteriological Grade)

# **INTENDED USE**

Meat Extract (Type-1) are used in preparing microbiological culture media

# PRODUCT SUMMARY AND EXPLANATION

Meat Extract(Type-1) 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**

Meat Extract(Type-1) is infusion of beef and provide an undefined source of nutrients. Meat Extract(Type-1) products are not exposed to the harsh treatment used for protein hydrolysis, so they can provide some of the nutrients lost during peptone manufacture. Meat Extract(Type-1) is mixtures of peptides and amino acids, nucleotide fractions, organic acids, minerals and some vitamins. The function of B. Meat Extract(Type-1) 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**

Meat Extract(Type-1) is a dehydrated extract of bovine 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** : Light yellowish to brownish yellow color, free flowing

Solubility (2% soln. at 25°C) : Soluble in distilled water, clear.

Clarity (2% Soln. at 121°C) : Clear solution. No ppt.

pH (2% Soln. at 25°C) 6.5 - 7.5Loss on drying (at 105°C) NMT - 6.0% Total Nitrogen (DWB) NLT - 12.0% α-Amino Nitrogen NLT – 2.5% **Total Ash** NMT - 12.0% Chloride (as NaCl) NMT - 5.0% **Indole Test** Positive **Microbial Test Passes Test** 

# **INTERPRETATION**

Cultural Characteristic observed in 2% Meat Extract(Type-1) 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 in plastic bottle. After packing tightly closed in a dry and well-ventilated place.

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.

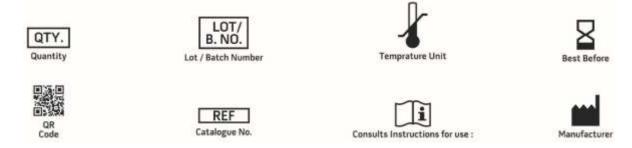
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

#### DISPOSAL

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

# **REFERENCES**

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- 4. U.S. Food and Drug Administration. 1995. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.
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NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices. \*For Lab Use Only

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