

## 1578 -PEPTONE-RG (GRANULAR) (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

<b>Appearance</b>	:	Light yellowish to brownish yellow color, free flowing
<b>Solubility (2% soln. at 25°C)</b>	:	Soluble in distilled water, clear.
<b>Clarity (2% Soln. at 121°C)</b>	:	Clear solution. No ppt.
<b>pH (2% Soln. at 25°C)</b>	:	6.5 – 7.5
<b>Loss on drying (at 105°C)</b>	:	NMT – 6.0%
<b>Total Nitrogen (DWB)</b>	:	NLT – 12.0%
<b>α-Amino Nitrogen</b>	:	NLT – 2.5%
<b>Total Ash</b>	:	NMT – 12.0%
<b>Chloride (as NaCl )</b>	:	NMT – 5.0%
<b>Indole Test</b>	:	Positive
<b>Microbial Test</b>	:	Passes Test

### INTERPRETATION

Cultural Characteristic observed in 2% Peptone-RG (Granular) 1.5% agar after incubation at 30-35°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant
<i>Escherichia coli</i>	25922	50-100	Luxuriant



<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant
<i>Salmonella typhi</i>	6539	50-100	Luxuriant
<i>Streptococcus pyogenes</i>	19615	50-100	Luxuriant

**PACKAGING:**

Standard packing is 500gm, 5kg in plastic bottle & drum. After packing tightly closed in a dry and well- ventilated place.

**STORAGE**

Store at room temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place. 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.

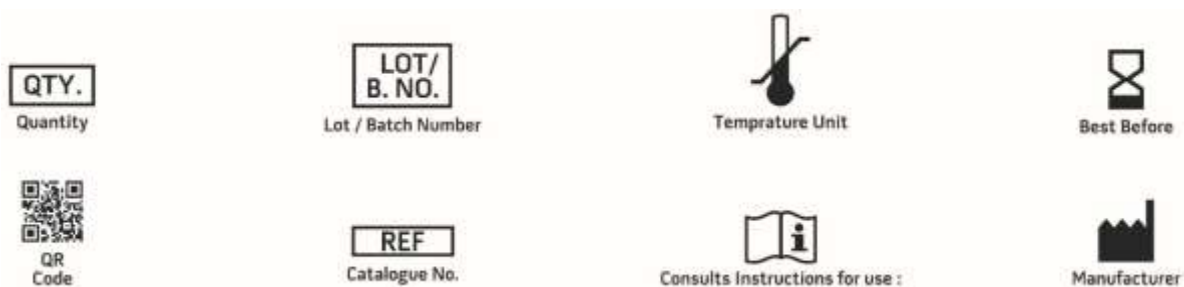
**Product Deterioration:** Do not use product if any contamination, discoloration or other sign of deterioration is found.

**DISPOSAL**

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

**REFERENCES**

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. U.S. Department of Agriculture. Microbiology laboratory guidebook, online. Food Safety and Inspection Service, USDA, Washington, D.C.



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

**\*For Lab Use Only**  
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