



Technical Data Sheet

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Meat Extract

RDM-P-06

Principle: Meat extract is made from bovine and highly concentrated meat stock. Being rich in essential amino acids it can be effectively used to nutritional supplement culture media. It consists of minerals, phosphates, energy sources and essential factors. It can also be used as a source of amino acids in culture media for many organisms.

Use: Recommended to use as culture media ingredient in variety of media.

Quality Control: Physical parameters and Chemical analysis

Appearance	Light beige colored homogeneous free flowing, powder
Solubility (2%)	Soluble in distilled water
Clarity	Light amber color clear solution without haziness at 2 % concentration
pH	5.00 – 7.00
Loss on drying	NMT 7.00%
Total Nitrogen	NLT 12.00 %
Amino Nitrogen	NLT 4.00 %
Residue on ignition	NMT 7.00 %

Bacteriological testing Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using meat extract under test.

Test for pathogens:

Total Plate Count	NMT 10000 cfu per gram.
Yeast & Molds	Absent per 10 grams
<i>Escherichia coli</i>	Absent per 10 grams
<i>Salmonella</i>	Absent per 10 grams
<i>Staphylococcus aureus</i>	Absent per 10 grams

Culture response: Cultural response observed after incubation at 35-37°C for 24 hours by using 2% meat extract, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4. Inoculate (Inoculum 50-100 CFU) and incubate at 35 ± 2°C for 18-24 hours.

<i>Escherichia coli</i> (ATCC 8739)	Luxuriant growth
<i>Salmonella typhimurium</i> (ATCC 14028)	Luxuriant growth
<i>Pseudomonas aeruginosa</i> (ATCC 10145)	Luxuriant growth

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes used, unusable or modified preparation of this product must be disposed after autoclaving or incineration after completion of task.

Disclaimer

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