



### 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**

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

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

**Storage and Shelf Life:** Store below 30°C in tightly sealed jar or container. Use before expiry date on the label. Expected performance when stored at optimum conditions and within expiry date.

**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.

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