



Technical Data Sheet

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Tryptone

RDM-P-16

Principle: Tryptone is milk origin protein derived from casein. It is manufactured by controlled enzymatic hydrolysis of casein. It is recommended for use in number of media such as cultivation media of bacteria, fungi, molds, yeast, diagnostic media and is suitable to be used for toxin and vaccine production.

Use: Recommended to use as culture media ingredient of diagnostic media and suitable to be used for vaccine production.

Quality Control Physical Properties

Description	A fine, free flowing, hygroscopic powder.
Solubility (2%)	Soluble in Distilled / de-ionized water solution is clear.
Color	Off white colored powder.
Color (2%)	Pale yellow color clear solution.
pH (2%)	6.00-7.50
Loss on Drying	NMT 7.00 estimated by AOAC method.
Chemical parameter on Dry weight basis	
Total Nitrogen (N)	NLT 12.0% by KJEDAHN'S Method.
Alpha Nitrogen	NLT 3.00 %
Tryptone test	Passes
Ash Content	NMT 10% as estimated by AOAC method.

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

Microbial Parameters

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.

Microbial Response:

<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: 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.

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