



Technical Data Sheet

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Tryptone Plus

RDM-P-24

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

Use: Recommended to use as ingredient media to be used for vaccine production.

Quality Control

Physical Properties

Appearance	White colored homogeneous free flowing hygroscopic powder
Solubility	Soluble in distilled water
Clarity	Pale yellow color, clear solution without haziness at 2 % concentration
pH	6.00 – 7.50 at 25°C
Loss on drying	NMT 7% as estimated by AOAC method.

Chemical analysis

Total Nitrogen	NLT 12.00 %
Amino Nitrogen	NLT 4.0 %
Tryptone test	Passes
Residue on ignition	NMT 10.0 %

Bacteriological testing Bacteriological tests are carried out as per USP 32, NF26 where respective medium is prepared by using tryptone 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% Tryptone, 0.5% sodium chloride and 1.5% agar in water, pH 7.2-7.4.

<i>Escherichia coli</i> (ATCC 25922)	Luxurious growth
<i>Salmonella typhimurium</i> (ATCC 14028)	Luxurious growth
<i>Pseudomonas aeruginosa</i> (ATCC 10145)	Luxurious growth
<i>Aspergillus brasiliensis</i> (ATCC 16404)	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.

Disclaimer

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