MicroMedica® Laboratories
Improving Lives Together

Technical Data Sheet

Tryptone (MML-TP-01)

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

Appearance	Off 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 3.0 %
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.
Escherichia coli	Absent per 10 grams.
Salmonella	Absent per 10 grams.
Staphylococcus aureus	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.

Escherichia coli (ATCC 25922)	Luxurious growth
Salmonella typhimurium (ATCC 14028)	Luxurious growth
Pseudomonas aeruginosa (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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