



### 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

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

#### Chemical analysis

<b>Total Nitrogen</b>	NLT 12.00 %
<b>Amino Nitrogen</b>	NLT 3.0 %
<b>Tryptone test</b>	Passes
<b>Residue on ignition</b>	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

#### 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.

#### Disclaimer

The information contained in the technical data sheet is to the best of our knowledge is accurate and true based on the research and development work carried out by ReadyMED®, Chaitanya Agro Biotech, Malkapur, Maharashtra. The products are neither intended for any therapeutic use for animal or human nor for any other *in-vivo* applications. The ReadyMED® products are only meant to be used for the laboratory, diagnostic, research, or further manufacturing purpose only. These technical outcomes should not be considered as the warranty of any kind expressed or implied, and no liability is accepted for infringement of any patent.