

3514 – TRYPTONE (REGULAR GRADE)

REF NO: TBL/QA/SS/LC/3514	STANDARD SPECIFICATION FOR TRYPTONE (REGULAR GRADE)	Rev. No: 03
Issue No: 04		Review Date: 07/11/2024
Issue Date: 08/11/2021		1Product code: 3514

PRODUCT PROPERTIES

C.A.S Number	NA
Chemical Formula	NA
Formula weight	NA
Functional Uses	Tryptone is recommended for laboratory media and fermentation and has been used in antibiotics, toxins, and enzyme productions. It is also used as a nutrient in vaccine production.
Standard Packaging	500 gm.

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	Off white to Creamish yellow colour, free flowing powder having characteristic odour but not pungent smell.
Solubility (2% soln. at 25°C)	Soluble in distilled Water, Clear. Insoluble in alcohol.
Clarity (2% Soln. at 121°C)	Clear solution. No ppt.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (2% Soln. at 25°C)	6.5 – 7.5
Loss on drying (at 105°C)	NMT – 5.0%
Total Nitrogen (DWB)	NLT – 12.0%
α-Amino Nitrogen	NLT – 2.0%00
Total Ash	NMT – 10.0%
Chloride (as NaCl)	NMT – 5.0%
Indole Test	Positive

MICROBIAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Total viable count	NMT – 10,000 cfu/gm
<i>Escherichia coli</i>	Negative



<i>Salmonella spp.</i>	Negative
<i>Staphylococcus aureus</i>	Negative
Yeast & moulds	NMT – 100 cfu/gm

GROWTH PROMOTION TEST

MICROORGANISMS	ATCC	GROWTH
<i>Staphylococcus aureus</i>	25923	Good-Luxuriant
<i>Escherichia coli</i>	25922	Good-Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	Good-Luxuriant
<i>Bacillus subtilis</i>	6633	Good-Luxuriant
<i>Enterococcus faecalis</i>	29212	Good-Luxuriant
<i>Streptococcus pyogenes</i>	19615	Good-Luxuriant

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.