

## 3518 – PEPTONE (Bacteriological Grade)

REF NO: TBL/QA/SS/LC/3518	<b>STANDARD SPECIFICATION FOR PEPTONE (Bacteriological Grade)</b>	Rev. No: 03
Issue No: 04		Review Date: 27/10/2024
Issue Date: 28/10/2021		Product code: 3518

### PRODUCT PROPERTIES

C.A.S Number	NA
Chemical Formula	NA
Formula weight	NA
Functional Uses	Used for bacteriological purpose
Standard Packaging	500 gm.,5Kg & 25 Kg

### PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	Brownish yellow color free flowing powder having characteristic meat odour but not pungent smell.
Solubility (2% soln. at 25°C)	Soluble in distilled water, clear.
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 – 6.0%
Total Nitrogen ( DWB)	NLT – 14.0%
α-Amino Nitrogen	NLT – 2.5%
Total Ash	NMT – 12.0%
Chloride (as NaCl )	NMT – 5.0%
Indole Test	Positive

### MICROBIAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Total viable count	NMT – 10,000 cfu/gm
Escherichia coli	Negative
Salmonella spp.	Negative
Staphylococcus aureus	Negative



Yeast & Moulds

NMT – 100 cfu/gm

### GROWTH PROMOTION TEST

Cultural Characteristic observed in 2% Peptone (Bacto. Grade) and 1.5% agar after incubation at 35-37°C for 18-24 hours.

MICROORGANISMS	ATCC	GROWTH
Staphylococcus aureus	25923	Good - Luxuriant
Escherichia coli	25922	Good - Luxuriant
Pseudomonas aeruginosa	27853	Good - Luxuriant
Bacillus subtilis	6633	Good - Luxuriant
Salmonella typhi	6539	Good - Luxuriant
Streptococcus pyogenes	19615	Good - Luxuriant

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

