1510- SOYATONE (SOYA PEPTONE)
(Peptic Digest of Soyabean Meal)

INTENDED USE

For used as a growth stimulant for the cultivation of fastidious microorganisms.

PRODUCT SUMMARY AND EXPLANATION

Soyatone is obtained by peptic digestion of soya flour. In addition to its nitrogen constituents, this peptone has high carbohydrate content and is suitable for many purposes. It is widely used in culture media and often used for the cultivation of many fastidious organisms and where rapid, luxuriant growth is required. However, due to this high content of sugar it is not recommendable for fermentation assays. It is creamish to yellowish color free flowing powder having characteristic odor of Soya and soluble in distilled water, clear solution.

PRINCIPLE

Soya Peptone is an enzymatic digest of soya flour. In addition to its nitrogen content, it is rich in high quality protein, carbohydrates, calcium and B vitamins. It is a non-animal product and hence soy-based peptones are used when it is necessary to eliminate all animal derived components.

INSTRUCTION FOR USE

It is widely used in culture media and is often used for the cultivation of many fastidious organisms and where rapid, luxuriant growth is required and also used as a general purpose peptone that is used for growth promotion in many media formulations including tryptic soy broth and agar.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Creamish to yellowish color free flowing powder having characteristic odor of Soya.
Solubility (2% soln. at 25ºC)	:	Soluble in distilled water, clear solution.
Clarity (2% Soln. at 121ºC)	:	Clear solution. No ppt.
pH (2% Soln. at 25ºC)	:	6.5 – 7.5
Loss on drying (at 105ºC)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 8.9%
α-Amino Nitrogen	:	NLT – 2.5%
Total Ash	:	NMT – 12.0%
Chloride (as NaCl)	:	NMT – 5.0%
Total Carbohydrates	:	NMT – 30.0%
Nitrite Test	:	Negative
Microbial test	:	Passes Test
Growth Promotional Test	:	Passes Test

INTERPRETATION

Cultural Characteristic observed in 2% Soyatone –R and 1.5% agar after incubation at 35-37°C for 18-24 hours.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth
Escherichia coli	25922	50-100	Good - Luxuriant
Clostridium sporogenes	19404	50-100	Good - Luxuriant
Bacillus subtilis	6633	50-100	Good - Luxuriant
Enterococcus faecalis	29212	50-100	Good - Luxuriant
Candida albicuns	10231	50-100	Good – Luxuriant

Pseudomonas aeruginosa	27853	50-100	Good – Luxuriant

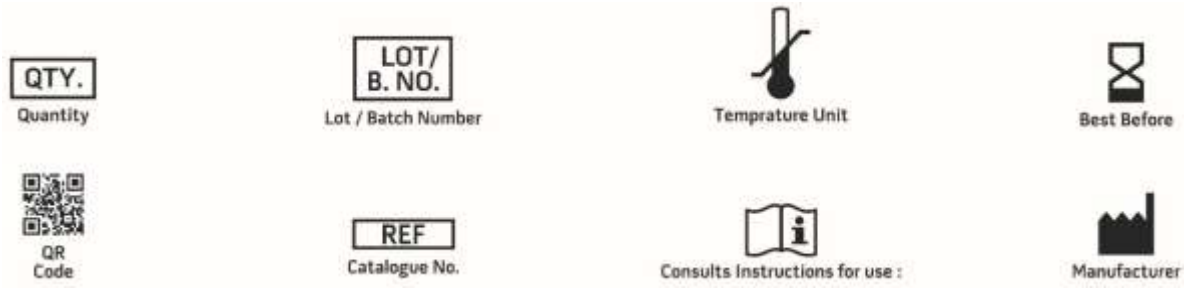
PACKAGING:
Standard packing is 500gm, 5kg in plastic bottle & Drum. After packing tightly closed in a dry and well- ventilated place.

STORAGE
Store at room temperature in cool place, Keep plastic bottle tightly closed in a dry and well-ventilated place. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.
Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL
After use, contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

REFERENCES

1. U.S. Food and Drug Administration. 1995. Bacteriological analytical manual, 8th ed. AOAC International, Gaithersburg, Md.
2. U.S. Department of Agriculture. 1998. Microbiology laboratory guidebook, 3rd ed. Food Safety and Inspection Service, USDA, Washington, D.C.
3. U.S. Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. 1999. Biosafety in microbiological and biomedical laboratories, 4th ed. HHS Publication No. (CDC) 93-8395. U.S. Government Printing Office, Washington, D.C



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

***For Lab Use Only**
Revision: 05th Oct. 2019