

CM 24013 – SOYATONE TYPE-1 (General purpose for Bacteriology)

INTENDED USE

It is a Pancreatic Digest of Casein used for cultivation of fastidious and non-fastidious bacteria and fungi

PRODUCT SUMMARY AND EXPLANATION

Soyatone Type-1 is a pancreatic digest of casein and as such composed of a mixture of amino acids, including essential amino acids, and larger peptides. Casein is the main protein of milk and is a rich source of amino acid nitrogen. Amongst all amino acids especially Tryptophan is present in high concentrations. Due to the rich nutritional properties, Tryptone is added to media as an accelerator to increase the yield of organisms and is recommended where a rapid and luxuriant growth of microorganisms is required. It is one of the components of the commonly used LB Broth for the growth of recombinant Escherichia coli. It is widely used as a supplement for microbiological culture media, as the hydrolysate is a good nutrient.

PRINCIPLE

Soyatone Type-1 is an enzymatic digest of casein used as a nitrogen source in culture media. Casein is the main protein of milk, and a rich source of amino-acid nitrogen. It is rich in tryptophan, making it valuable for use in detecting indole production. The absence of detectable levels of carbohydrates in Tryptone – R makes it a suitable peptone in differentiating bacteria on the basis of their ability to ferment various carbohydrates.

INSTRUCTION FOR USE

It is used as a source of nitrogen in culture media for detection of fungi and some bacteria

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light yellowish colour free flowing powder having characteristic odour of Soya.
Solubility (2% soln. at 25°C)	:	Soluble in distilled water, clear. Insoluble in alcohol.
Clarity (2% Soln. at 121°C)	:	Clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.5 – 7.5
Loss on drying (at 105°C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 9.5%
α-Amino Nitrogen	:	NLT – 2.0%
Total Ash	:	NMT – 10.0%
Chloride (as NaCl)	:	NMT – 5.0%
Microbial Parameter	:	Passes Test
Growth Promotion 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
Staphylococcus aureus	25923	50-100	Good - Luxuriant
Escherichia coli	25922	50-100	Good - Luxuriant
Bacillus subtilis Salmonella	6633	50-100	Good - Luxuriant
typhimurium	14028	50-100	Good - Luxuriant
Saccharomyces cerevisiae	9763	50-100	Good - Luxuriant
Aspergillus niger	16404	50-100	Good - Luxuriant



Candida albicans	10231	50-100	Good - Luxuriant
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PACKAGING:

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

STORAGE

Keepplastic bottle tightly closed in a dry and well-ventilated place, Store in cool 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 plastic bottle after use.

Product Deterioration: Do not use product if any contamination, discoloration or other sign of deterioration is found.

DISPOSAL

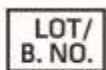
Afteruse,contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

REFERENCES

1. Vanderzant, C., and D. F. Splittstoesser (eds.). 1992. Compendium of methods for the microbiological examination of food, 3rd ed. American Public Health Association, Washington, D.C.
2. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalmanualBAM/default.htm.
3. Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.). 1995. Standard methods for the examination of water and wastewater, 9 th ed. American Public Health Association, Washington, D.C.
4. Marshall, R. T. (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
5. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
6. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md



Quantity



Lot / Batch Number



Temperature Unit



Best Before



QR Code



Catalogue No.



Consults Instructions for use :



Manufacturer

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

*ForLab Use Only

