

CM 24010 – SOYATONE –R (General purpose for Bacteriology)

INTENDED USE

It is used for cultivation of fastidious and non-fastidious bacteria and fungi

PRODUCT SUMMARY AND EXPLANATION

Soyatone, also known as soya peptone, is a plant-based peptone, high in carbohydrates and nitrogen. Soyatone is a common ingredient in culture media, especially for growing fastidious organisms. It's also used to promote growth in media like tryptic soy broth and agar. Due to the rich nutritional properties, Soyatone 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 soy broth and agar for the growth of recombinant Escherichia coli. It is widely used as a supplement for microbiological culture media.

PRINCIPLE

Soyatone –R is used as a nitrogen source in culture media. Soya is the main protein and a rich source of amino-acid nitrogen. It is making it valuable for use in detecting indole production. The absence of detectable levels of carbohydrates in Soyatone– 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 solution
Clarity (2% Soln. at 121°C)	:	Clear solution. No ppt.
pH (2% Soln. at 25°C)	:	6.0 – 7.0
Loss on drying (at 105°C)	:	NMT – 6.0%
Total Nitrogen (DWB)	:	NLT – 9.5%
α-Amino Nitrogen	:	NLT – 1.5%
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
Escherichia coli	25922	50-100	Good - Luxuriant
Bacillus subtilis Salmonella	6633	50-100	Good
typhimurium	14028	50-100	Good - Luxuriant
Saccharomyces cerevisiae	9763	50-100	Good
Aspergillus niger	16404	50-100	Good - Luxuriant
Candida albicans	10231	50-100	Good



PACKAGING:

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

STORAGE

Keep plastic 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

After use, 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, 9th 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

QTY.

Quantity

LOT/
B. NO.

Lot / Batch Number



Temperature Unit



Best Before



QR
Code

REF

Catalogue No.



Consults Instructions for use :



Manufacturer

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

*For Lab Use Only

