

CM 21567 - SALMONELLA SELECTIVE ENRICHMENT BROTH BASE

INTENDED USE

For selective isolation and differentiation of Salmonella species.

PRODUCT SUMMARY AND EXPLANATION

Salmonella are ubiquitous in the environment. These organisms are usually present in small numbers compared to coliforms; Therefore, it is necessary to examine a relatively large sample to isolate the organisms. Salmonella present in food samples may be sublethally damaged during various stages of food processing where they may be exposed to low temperatures, heat drying, radiations, various chemicals. These damaged cells are able to cause spoilage, and if ingested cause diseases under favourable conditions. Therefore it is important to resuscitate these damaged bacteria before enumeration. Salmonella Enrichment Broth Base is recommended for the selective enrichment of Salmonella species within 18-24 hours.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	5.000
Yeast extract	5.000
Buffer mixture	10.000
Growth mixture	5.000

PRINCIPLE

Peptone special and yeast extract supports the luxuriant growth of bacteria by supplying nitrogen and carbon compounds, long chain amino acids, vitamins and other essential nutrients.

INSTRUCTION FOR USE

Dissolve 25 grams in 1000 ml distilled water.

Heat if necessary to dissolve the medium completely.

Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

Cool to 45-50°C and aseptically add the rehydrated contents of one vial of Salmonella Selective Enrichment Supplement.

Mix well and dispense as desired.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to yellow homogeneous free flowing powder.

Appearance of prepared medium : Light yellow coloured clear solution without any precipitate.

pH (at 25°C) : 7.0±0.2

INTERPRETATION

Cultural characteristics observed with added Salmonella Selective Enrichment Supplement after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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Salmonella Typhimurium	14028	50 -100	Good-luxuriant	35-37°C	18-24 Hours
Salmonella Enteritidis	13076	50 -100	Good-luxuriant	35-37°C	18-24 Hours
Salmonella Abony	6017	50 -100	Good-luxuriant	35-37°C	18-24 Hours
Staphylococcus aureus subsp. aureus	25923	>=104	Inhibited	35-37°C	18-24 Hours

PACKAGING:

In pack size of 100 gm and 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Cherry et al, 1972, Appl. Microbiol., 24:334
2. Hartman and Minich, 1981, J. Food and Prot., 44:385
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
5. Salfinger Y., and Tortorello M.L. Fifth (Ed.), 2015, Compendium of Methods for the Microbiological Examination of Foods, 5th Ed., American Public Health Association, Washington, D.C.

 Good Manufacturing Practices Certified	 For In Vitro Diagnostic Use	 Quantity	 Lot / Batch Number	 Catalogue Number	 Manufacturer
 Temperature Unit	 Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

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

