Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Milk Agar (Twin Pack) RDM-BSMM-01

Principle
Brown and Scott Modified medium is composed of skim milk powder, peptone, sodium chloride, meat extract, yeast extract and agar. Skim milk powder, peptone, meat extract and yeast extract provide nitrogen, carbon, vitamins and essential nutrients for growth of microorganisms. Skim milk is a source of casein. Sodium chloride maintains osmatic equilibrium. Agar is solidifying agent.

Use: Recommended for enumeration of *Pseudomonas aeruginosa* from water samples etc.

Contents*

Ingredients	**Gram/Litre**
Part A	
Skim Milk Powder	100.00
Part B	
Peptone	5.00
Meat Extract	1.50
Yeast Extract	1.50
Sodium Chloride	5.00
Agar	15.00
pH at 25˚C	7.4 ±0.2

* Formula adjusted for optimum performance and parameters

Directions:
Part A: Dissolve 100.00 grams in 500 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 55 °C.
Part B: Dissolve 28.00 grams in 500 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 min, cool it to 55 °C.
Mix Part A and Part B in sterile flask and distribute aseptically in sterile petri plates and allow to solidify. Ensure complete solidification and inoculate test organisms aseptically.

Specimens types analyzed
water samples etc.

Precautions to be taken
These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation
The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Part A: Off white colored free flowing, homogeneous powder Part B: Light beige colored free flowing, homogeneous powder
Reaction of 10.0% part A and 2.8%	7.4 ±0.2 at 25 ˚C

part B solution	
pH	7.20 – 7.60
Gelling	Firm comparable with 1.5% agar gel
Color and clarity of ready medium	Light amber colored opalescent gel
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 ºC for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Organism	Inoculum	Growth	Recovery	Proteolytic activity	Incubation
Pseudomonas aeruginosa (ATCC 27853)	50-100	Luxurious	70-80%	Positive	33-37 °C, 18-48 h

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. *Difco Manual* (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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