



PRODUCT SPECIFICATION SHEET

Ringer Salt Solution Powder (DM225)

Intended Use

Ringer Salt Solution Powder (DM225) is used for an isotonic diluent used during microbiological examination of food, milk and dairy products

Product Summary and Explanation

In microbiological examination any diluents used for suspension should be isotonic with the cells. It should also preferably contain a buffer and certain ions necessary for the optimal maintenance of cells. Ringer Salt Solution Powder is used as an isotonic diluent for food products during microbiological testing.^(1, 2) Ringer Salt Solution is isotonic with bacteria and thus prevents them from being subjected to osmotic stress when they are removed from their customary environment. It is physiologically superior to physiological saline for sensitive organisms.

Ringer Salt Solution is used as an isotonic diluting fluid and suspending fluid which preserves the cells in their original condition. The salts in the medium balances the osmotic equilibrium of the medium, thereby protecting the organisms from osmotic stress caused due to change in environment.

Principles of the Procedure

Ringer Salt Solution Powder contains necessary salts which help to balance the osmotic equilibrium of the medium, thereby protecting the organisms from osmotic stress caused due to change in environment.

Formula / Liter

Ingredients	Gms / Liter
Sodium chloride	8.50
Potassium chloride	0.20
Calcium chloride	0.20
Sodium bicarbonate	0.01
Final pH: 7.0 ± 0.2 at 25°C	
Formula may be adjusted and/or supplemented as required to meet performance specifications	

Precautions

1. For Laboratory Use only.
2. IRRITANT. Irritating to eyes, respiratory system, and skin.

Directions

1. Suspend 8.91 grams of the medium in one liter of distilled water.
2. Heat if necessary to dissolve the medium completely.
3. Dispense as desired.
4. Autoclave at 121°C, 15 psi pressure, for 15 minutes / validated cycle.

Quality Control Specifications

Dehydrated Appearance	White to cream homogeneous free flowing powder
Prepared Medium	Colourless clear solution without any precipitate
Reaction of 0.891% Solution	pH : 7.0 ± 0.2 at 25°C
Gel Strength	Not Applicable

Expected Cultural Response

Satisfactory results are obtained when used as a diluent during bacteriological examination of foods, milk, dairy products as well as for serial dilutions of pure cultures of bacteria.





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Test Procedure

Refer to appropriate references for standard test procedures.

Results

Refer to appropriate references and test procedures for interpretation of results.

Storage

Store the sealed bottle containing the dehydrated medium at 10 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light.

Expiration

Refer to the expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedure

1. For identification, organisms must be in pure culture. Morphological, biochemical and/or serological tests should be performed for final identification.
2. Consult appropriate texts for detailed information and recommended procedures.

Packaging

Product Name : Ringer Salt Solution Powder

Product Code : DM225

Available Pack sizes : 100gm

References

1. Finegold S. M and Baron E. J, 1986, Bailey and Scotts Diagnostic Microbiology, 7th Edition, The C.V. Mosby Co.
2. Collee J. G., Fraser A. G., Marmion B. P., Simmons A., (Eds.), 1996, Mackie and McCartney, Practical Medical Microbiology, 14th Edition, Churchill Livingstone.

Further Information

For further information please contact your local MICROMASTER Representative.



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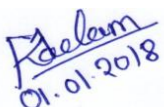
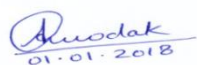

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