

Warning and Precautions :

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets

Limitations :

1. Freshly prepared plates must be used or it may result in erroneous results.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Cream to yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent gel forms in Petri plates.

pH

7.80-8.00

Growth Promotion Test

As per British Pharmacopoeia

Cultural Response

M004B: Cultural characteristics observed after an incubation at specified temperature for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Antibiotics assayed & incubation temp.
Cultural Response				
<i>Micrococcus luteus</i> ATCC 9341	50-100	good-luxuriant	>=70%	Tylosin, Tylosin tartarate (adjust pH to 8.0±0.1)
<i>Staphylococcus aureus</i> ATCC 6538p (00195*)	50-100	good-luxuriant	>=70%	Kanamycin mono- te / 30-37°C Kanamycin acid sulphate/ 35-39°C Netilmycin sulphate/ 32-35°C
<i>Staphylococcus epidermidis</i> ATCC 12228 (00036*)	50-100	luxuriant	>=70%	Gentamicin sulphate/ 35-39°C
<i>Bacillus pumilis</i> NCTC 8241	50-100	good-luxuriant	>=70%	Gentamicin sulphate/ 35-39°C Neomycin sulphate/ 30-37°C
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> ATCC 6633 (00003*)	50-100	good-luxuriant	>=70%	Kanamycin mono sulphate / 30-37°C, Kanamycin acid sulphate /35-39°C, Neomycin sulphate/ 30-37°C, Spiramycin / 30-32°C, Streptomycin sulphate /30-37°C Vancomycin hydrochloride (adjust the pH to 8.0±.0.1) / 37-39°C
<i>Bacillus subtilis</i> NCTC 8236	50-100	luxuriant	>=70%	Streptomycin sulphate/ 30-37°C

*- Corresponding WDCM numbers

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (5,6).

Reference

1. Grove and Randall, 1955, Assay Methods of Antibiotics Medical Encyclopaedia, Inc, New York
2. Schmidt and Moyer, 1944; J. Bact, 47:19
3. British Pharmacopoeia, 11 The Stationery office British Pharmacopoeia
4. Tests and Methods of Assay of Antibiotics and Antibiotic containing Drugs, FDA, CFR, 1983. Title 21, part 436, Subpart D, Washington, D.C. U.S Government printing office, paragraphs 436, 100-436, 106 pg 242-259 (April 1).
5. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
6. 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.

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Disclaimer :

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