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INTENDED USE

Difco™ Antimicrobial Vial A, containing chlortetracycline, is used in preparing selective microbiological culture media.

SUMMARY AND EXPLANATION

Difco Antimicrobial Vial A was originally used in preparing Dermatophyte Test Medium (DTM Agar) described by Taplin, Azias, Rebell and Blank¹ for the isolation of dermatophytes. Antimicrobial Vial A is applicable for use in various media requiring this antibiotic. Cooke² preferred chlortetracycline in Cooke Rose Bengal Agar due to the increased stability of the antibiotic.

PRINCIPLES OF THE PROCEDURE

Chlortetracycline selectively inhibits bacterial growth by inhibiting protein synthesis³ and restricts the size and height of colonies of more rapidly growing molds.

REAGENTS

Difco Antimicrobial Vial A

Contains 25 mg desiccated chlortetracycline per 10 mL vial.

The resulting concentration of the rehydrated solution is 2.5 mg chlortetracycline per mL.

Warnings and Precautions:

For Laboratory Use.

Warning



H315 Causes skin irritation. **H319** Causes serious eye irritation. **H335** May cause respiratory irritation.

P264 Wash thoroughly after handling. **P280** Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 "IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing." **P312** Call a POISON CENTER or doctor/physician if you feel unwell. **P403+P233** Store in a well-ventilated place. Keep container tightly closed. **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

Storage Instructions: On receipt, store at 2–8 °C.

PROCEDURE

Material Provided: Difco Antimicrobial Vial A

Materials Required But Not Provided: Ancillary culture media, reagents, quality control organisms and laboratory equipment as required for this procedure.

Directions for Preparation: Observe aseptic techniques.

To rehydrate Difco Antimicrobial Vial A, aseptically add 10 mL sterile, purified water and agitate gently to effect complete solution. Add the rehydrated contents of the vial to autoclaved basal medium cooled to about 50 °C (e.g., 10 mL to 250 mL of Dermatophyte Test Medium Base; 14 mL to 1 L of Cooke Rose Bengal Agar) and swirl to obtain a homogeneous solution. Dispense into Petri dishes, tubes or one-ounce bottles.

USER QUALITY CONTROL

Difco Antimicrobial Vial A

Identity Specifications

Desiccated Appearance: Yellow cake or powder.

Rehydrated Appearance: Yellow, clear solution.

Solution: Soluble in 10 mL purified water.

Cultural Response

Prepare **Difco** Cooke Rose Bengal Agar (Antimicrobial Vial A added aseptically) per label directions. Inoculate and incubate at 25–30 °C for up to 72 h.

ORGANISM	ATCC®	INOCULUM CFU	RECOVERY
<i>Aspergillus niger</i>	16404	Undiluted	Good
<i>Candida albicans</i>	26790	30–300	Good
<i>Escherichia coli</i>	25922	10 ³	Inhibition
<i>Saccharomyces cerevisiae</i>	9763	30–300	Good

Results

Refer to appropriate references and procedures for results.³⁻⁵

AVAILABILITY

Cat. No. Description

233331 **BD Difco™** Antimicrobial Vial A, 6 x 10 mL.

REFERENCES

1. Taplin, Azias, Rebell and Blank. 1969. Arch. Dermatol. 99:203.
2. Cooke. 1954. Antibiot. Chemother. 4:657.
3. Murray, Baron, Pfaller, Tenover and Tenover (ed.). 1999. Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
4. Clesceri, Greenberg and Eaton (ed.). 1998. Standard methods for the examination of water and wastewater, 20th ed. American Public Health Association, Washington, D.C.
5. Beuchat and Cousin. 2001. In Downes and Ito (ed.), Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.

Technical Information: In the United States, contact BD Technical Service and Support at 800-638-8663 or www.bd.com/ds.



Batch Code (Lot) / Код на партидата / Kód (číslo) šarže / Batch-kode (lot) / Batch-Code (Charge) / Κωδικός παρτίδας (παρτίδα) / Código de lote (lote) / Partii kood / Numéro de lot / Lot (kod) / Tétel száma (Lot) / Codice batch (lotto) / Топтама коды / 배치 코드(로트) / Partijos numeris (LOT) / Partijas kods (laidiens) / Lot number / Batch-kode (parti) / Kod partii (seria) / Código do lote / Cod de serie (Lot) / Код партии (лот) / Kód série (šarža) / Kod serije / Partinummer (Lot) / Parti Kodu (Lot) / Код партії / 批号 (亚批)



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 ГГГГ-ММ-ДД / ГГГГ-ММ (ММ = края на месеца)
 RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
 AAAA-MM-DD / AAAA-MM (MM = slutning af måned)
 JJJJ-MM-TT / JJJJ-MM (MM = Monatsende)
 EEEE-MM-HH / EEEE-MM (MM = τέλος του μήνα)
 AAAA-MM-DD / AAAA-MM (MM = fin del mes)
 AAAA-KK-PP / AAAA-KK (KK = kuu lõpp)
 AAAA-MM-JJ / AAAA-MM (MM = fin du mois)
 GGGG-MM-DD / GGGG-MM (MM = kraj mjeseca)
 ÉÉÉÉ-HH-NN / ÉÉÉÉ-HH (HH = hónap utolsó napja)
 AAAA-MM-GG / AAAA-MM (MM = fine mese)
 ЖӨЖӨК-АА-КК / ЖӨЖӨК-АА (АА = айдың соңы)
 YYYY-MM-DD/YYYY-MM(MM = 월말)
 MMMM-MM-DD / MMMM-MM (MM = mėnesio pabaiga)
 GGGG-MM-DD/GGGG-MM (MM = mėneša beigas)
 JJJJ-MM-DD / JJJJ-MM (MM = einde maand)
 AAAA-MM-DD / AAAA-MM (MM = sluten av måneden)
 RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
 AAAA-MM-DD / AAAA-MM (MM = fim do mês)
 AAAA-LL-ZZ / AAAA-LL (LL = sfârșitul lunii)
 ГГГГ-ММ-ДД / ГГГГ-ММ (ММ = конец месяца)
 RRRR-MM-DD / RRRR-MM (MM = koniec miesiąca)
 GGGG-MM-DD / GGGG-MM (MM = kraj meseca)
 AAAA-MM-DD / AAAA-MM (MM = slutet av månaden)
 YYYY-AA-GG / YYYY-AA (AA = аяın сопу)
 PPPP-MM-ДД / PPPP-MM (MM = кінець місяця)
 YYYY-MM-DD / YYYY-MM (MM = 月末)



Catalog number / Каталоген номер / Katalogové číslo / Katalognummer / Αριθμός καταλόγου / Número de catálogo / Katalooginumber / Numéro catalogue / Kataloški broj / Katalógusszám / Numero di catalogo / Каталог нөмірі / 카탈로그 번호 / Katalogo / numeris / Kataloga numurs / Catalogus number / Numer katalogowy / Număr de catalog / Номер по каталогу / Katalogové číslo / Kataloški broj / Katalog numarası / Номер за каталогом / 目录号



Temperature limitation / Температурни ограничения / Teplotní omezení / Temperaturbegrænsning / Temperaturbegrenzung / Περιορισμοί θερμοκρασίας / Limitación de temperatura / Temperaturi piirang / Limites de température / Dozvoljena temperatura / Hőmérsékleti határ / Limiti di temperatura / Температураны шектеу / 온도 제한 / Laikymo temperatūra / Temperatūras ierobežojumi / Temperaturlimit / Temperaturbegrensning / Ograniczenie temperatury / Limites de temperatura / Limite de temperatură / Ограничение температуры / Ograničenje teploty / Ograničenje temperature / Temperaturgräns / Sıcaklık sınırlaması / Обмеження температури / 温度限制



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