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INTENDED USE

Difco™ Antimicrobial Vial K, containing kanamycin, is used to supplement SFP Agar Base containing Egg Yolk Enrichment 50% and **Difco** Antimicrobial Vial P for the detection and enumeration of *Clostridium perfringens* in foods.

SUMMARY AND EXPLANATION

SFP (Shahidi Ferguson Perfringens) Agar Base is prepared according to the formulation of Shahidi and Ferguson.¹ With the addition of 50% egg yolk emulsion, both the lecithinase reaction and the sulfite reaction can be used in identifying *Clostridium perfringens*. The selectivity of the medium is due to the added kanamycin (**Difco** Antimicrobial Vial K) and polymyxin B (**Difco** Antimicrobial Vial P).

PRINCIPLES OF THE PROCEDURE

Clostridia are not inhibited by kanamycin, which inhibits protein synthesis in susceptible organisms.²

REAGENTS

Difco Antimicrobial Vial K

Approximate Formula* per 10 mL Vial

25 mg Kanamycin per 10 mL vial.

*Adjusted and/or supplemented as required to meet performance criteria.

Warnings and Precautions:

For Laboratory Use.

Danger



H302 Harmful if swallowed. **H360** May damage fertility or the unborn child.

P264 Wash thoroughly after handling. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. **P405** Store locked up. **P501** Dispose of contents/ container in accordance with local/regional/national/international regulations.

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

Product Deterioration: Do not use if product fails to meet "Identity Specifications."

PROCEDURE

Materials Provided: **Difco** Antimicrobial Vial K.

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.

1. To rehydrate, aseptically add 10 mL sterile purified water per vial.
2. Rotate in an end-over-end motion to dissolve the contents completely.
3. When the solution is used to prepare **Difco** SFP Agar Base, add 4.8 mL to each liter of base and cover layer as described in the label directions for preparation of the agar base.

USER QUALITY CONTROL

Difco Antimicrobial Vial K

Identity Specifications:

Dehydrated Appearance: White cake or powder.

Rehydrated Appearance: Colorless, clear solution.

Cultural Response:

Prepare the base layer and cover layer of **Difco** SFP Agar per label directions, inoculating the base layer. Incubate at $35 \pm 2^\circ\text{C}$ under anaerobic conditions for 18–48 h.

ORGANISM	ATCC®	INOCULUM CFU	RECOVERY	COLONY COLOR
<i>Clostridium perfringens</i>	12919	30–300	Good	Black with a zone of precipitation (halo)
<i>Clostridium perfringens</i>	12924	30–300	Good	Black with a zone of precipitation (halo)

RESULTS

When used to supplement a basal medium, the complete medium should meet specific product expectations.

AVAILABILITY

Cat. No.	Description
233391	BD Difco™ Antimicrobial Vial K, 6 x 10 mL vials.
281110	BD Difco™ SFP Agar Base, 500 g.
232681	BD Difco™ Antimicrobial Vial P, 6 x 10 mL.
233471	BD Difco™ Egg Yolk Enrichment 50%, 12 x 10 mL bottles.
233472	BD Difco™ Egg Yolk Enrichment 50%, 6 x 100 mL bottles.

REFERENCES

1. Shahidi, S.A., and A.R. Ferguson. 1971. New quantitative, qualitative, and confirmatory media for rapid analysis of food for *Clostridium perfringens*. Appl. Microbiol. 21:500-506.
2. Yao, J.D.C., and R.C. Moellering, Jr. 1999. Antibacterial agents, p. 1474-1504. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R.H. Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.

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



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 nummer / Numer katalogowy / Număr de catalog / Номер по каталогу / Katalógové číslo / Kataloški broj / Katalog numarası / Номер за каталогом / 目录号



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



Use by / Използвайте до / Spotfæbujte do / Brug før / Verwendbar bis / Χρήση έως / Usar antes de / Kasutada enne / Date de péremption / 사용 기한 / Upotrijebiti do / Felhasználhatóság dátuma / Usare entro / Дейин пайдалануға / Naudokite iki / Izlietot līdz / Houdbaar tot / Brukes for / Stosować do / Prazo de validade / A se utiliza până la / Использовать до / Použít do / Upotrebiti do / Använd före / Son kullanma tarihi / Використати до / 使用截止日期

YYYY-MM-DD / YYYY-MM (MM = end of month)
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)
ЖОЖОЖ-АА-КК / ЖОЖОЖ-АА / (АА = айдың соңы)
YYYY-MM-DD/YYYY-MM(MM = 월말)
MMMM-MM-DD / MMMM-MM (MM = mēnesio pabaiga)
GGGG-MM-DD/GGGG-MM (MM = mēneša beigas)
JJJJ-MM-DD / JJJJ-MM (MM = einde maand)
AAAA-MM-DD / AAAA-MM (MM = slutten 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 (ММ = koniec miesiąca)
GGGG-MM-DD / GGGG-MM (ММ = kraj meseca)
AAAA-MM-DD / AAAA-MM (ММ = slutet av månaden)
YYYY-AA-GG / YYYY-AA (AA = ayın sonu)
PPPP-MM-ДД / PPPP-MM (ММ = кінець місяця)
YYYY-MM-DD / YYYY-MM (ММ = 月末)



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 nummer / 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)



Consult Instructions for Use / Направете справка в инструкциите за употреба / Prostudujte pokyny k použití / Se brugsanvisningen / Gebrauchsanweisung beachten / Συμβουλευτείτε τις οδηγίες χρήσης / Consultar las instrucciones de uso / Lugeda kasutusjuhendit / Consulter la notice d'emploi / Koristi upute za upotrebu / Olvassa el a használati utasítást / Consultare le istruzioni per l'uso / Пайдалану нұсқаулығымен танысып алыңыз / 사용 지침 참조 / Skaitykite naudojimo instrukcijas / Skatīt lietošanas pamācību / Raadpleeg de gebruiksaanwijzing / Se i brugsanvisningen / Zobacz instrukcja użytkowania / Consultar as instruções de utilização / Consultați instrucțiunile de utilizare / См. руководство по эксплуатации / Pozri Pokyny na používanie / Pogledajte uputstvo za upotrebu / Se brugsanvisningen / Kullanım Talimatları'na başvurun / Див. інструкції з використання / 请参阅使用说明

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