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#### INTENDED USE

Difco™ Antimicrobial Vial P, containing polymyxin B, is used for the preparation of selective microbiological culture media.

#### SUMMARY AND EXPLANATION

Difco Antimicrobial Vial P is used to supplement SFP Agar Base<sup>1</sup> containing Egg Yolk Enrichment 50% and Difco Antimicrobial Vial K for the detection and enumeration of *Clostridium perfringens* in foods. Difco Antimicrobial Vial P is also used with Difco MYP Agar with Egg Yolk Enrichment 50% for enumerating *Bacillus cereus* in foods.<sup>2</sup>

#### PRINCIPLES OF THE PROCEDURE

Difco Antimicrobial Vial P contains polymyxin B, which inhibits the growth of bacteria by increasing cell permeability and disrupting osmotic integrity.<sup>3</sup>

#### REAGENTS

##### Difco Antimicrobial Vial P

Approximate Formula\* per 10 mL Vial

30,000 units Polymyxin B

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

#### Warnings and Precautions:

For Laboratory Use.

#### Warning



**H302** Harmful if swallowed.

**P264** Wash thoroughly after handling. **P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**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 P.

**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.

#### For Use in SFP Agar Base

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. Add 10 mL to each liter of molten autoclaved SFP Agar Base.

#### For Use in MYP Agar

1. To rehydrate, aseptically add 5 mL sterile purified water (to achieve the desired concentration for MYP Agar).
2. Rotate in an end-over-end motion to dissolve the contents completely.
3. Add 4.1 mL to 225 mL of molten autoclaved MYP Agar Base.

## USER QUALITY CONTROL

### Difco Antimicrobial Vial P

#### 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  $35 \pm 2$  °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
232681	<b>BD Difco™</b> Antimicrobial Vial P, 6 x 10 mL.
281110	<b>BD Difco™</b> SFP Agar Base, 500 g.
233391	<b>BD Difco™</b> Antimicrobial Vial K, 6 x 10 mL vials.
233471	<b>BD Difco™</b> Egg Yolk Enrichment 50%, 12 x 10 mL bottles.
233472	<b>BD Difco™</b> Egg Yolk Enrichment 50%, 6 x 100 mL bottles.
281010	<b>BD Difco™</b> MYP Agar, 500 g.

## 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. Mossel, D.A.A., M.J. Koopman, and E. Jongerius. 1967. Enumeration of *Bacillus cereus* in foods. *Appl. Microbiol.* 15:650-653.
3. 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](http://www.bd.com/ds).



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



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



Use by / Исползвайте до / Spotføjbuje do / Brug før / Verwendbar bis / Χρήση έως / Usar antes de / Kasutada enne / Date de péremption / 사용 기한 / Upotrijebiti do / Felhasználhatóság dátuma / Usare entro / Дейін пайдалануға / Naudokite iki / Izlietot līdz / Houdbaar tot / Brukes for / Stosować do / Prazo de validade / A se utilizeza până la / Исползовать до / Použite do / Upotrebiti do / Använd före / Son kullanna 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)  
 ЖӨЖӨЖ-АА-КК / ЖӨЖӨЖ-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 = sluttan 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 = айın солу)  
 PPPP-MM-DD / PPPP-MM (MM = кінець місяця)  
 YYYY-MM-DD / YYYY-MM (MM = 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 (lotta) / 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)



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