SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

# 현장을 이해하고, 필요한 솔루션을 연결합니다.

산업안전 · 추락방지 시스템
산업용 소재 · 건축자재
제품 제안부터 공급·시공·설치·교육까지




COMPANY INFORMATION

**스냅슛 (SNAPSHOOT)**

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TECHNICAL DOCUMENTS

## 인증서 · 데이터시트 · 기술자료

제품의 규격과 성능, 인증 및 적용 조건을 확인하기 위한 자료입니다.

ABOUT SNAPSHOOT

### 제품 공급을 넘어, 현장에 맞는 해결책으로

스냅슛은 산업현장의 작업 환경과 요구 조건을 바탕으로
적합한 제품과 시스템을 제안합니다. 현장 실사를 통해 설치 조건을 확인하고,
공급부터 시공·설치 및 사용 교육까지 필요한 과정을 함께합니다.

**추락방지 시스템**

안전대부착설비 · 수평·수직 라이프라인
레일 시스템 · 리지드 포스트

**밀폐공간 진입·구조 솔루션**

데빗암 · 삼각대 · 구조용 윈치
윈치 안전블록 · 구조장비

**산업안전 보호구**

전신형 안전대 · 랜야드 · 안전블록
작업 환경에 맞춘 개인보호구

**산업용 소재·건축자재**

산업용 테이프 · 접착제 · 기능성 소재
구조용 스크류 · 목조건축 자재

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홈페이지 바로가기 →
문서 라이브러리 바로가기 →
시공사례 바로가기 →
문의하기 →

본 페이지는 스냅슛의 자료 제공 안내용 표지입니다. 첨부된 인증서 및 기술자료의 발행 주체, 인증 대상과 적용 범위는 해당 원문을 기준으로 확인해 주세요.

# Perfringens Agar (OPSP) (NCM0268)

Revision: 1 Effective Date: 3/12/2021

## Intended Use

Perfringens Agar (OPSP) is used for the cultivation of anaerobic microorganisms and is not intended for use in the diagnosis of disease or other conditions in humans.

## Description

Oleandomycin, Polymixin, Sulphadiazine, Perfringens (OPSP) agar, has been used as a standard medium for *Clostridium perfringens* for many years. This medium was developed by Handford in 1974 to overcome some of the problems associated with enumerating *Clostridium perfringens* in foods. The medium is buffered and utilizes sodium metabisulphite and liver extract as sources of $H_2S$ with ferric ammonium citrate as the indicator.

The medium is made selective with the addition of NCM4021Sulphadiazine and NCM4020 Oleandomycin & Polymyxin supplements. Some strains of *C. perfringens* may demonstrate sensitivity to the sulphadiazine antibiotic (NCM4021) in such cases use of NCM0077, TSC Perfringens Agar Base (with NCM4022 Cycloserine) should be considered.

## Typical Formulation

| | |
|---|---|
| Tryptone | 15.0 g/L |
| Yeast Extract | 5.0 g/L |
| Soy Peptone | 5.0 g/L |
| Liver Extract | 7.0 g/L |
| Ferric Ammonium Citrate | 1.0 g/L |
| Sodium Metabisulphite | 1.0 g/L |
| Tris Buffer | 1.5 g/L |
| Agar | 10.0 g/L |

Final pH: 7.3 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

## Supplements

NCM4021 Sulphadiazine (100mg/L)
NCM4020 Oleandomycin & Polymyxin

## Precaution

Refer to SDS

## Preparation

1. Suspend 45.5 grams of the medium and add to 1 liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121°C for 15 minutes.
4. Allow to cool to 45-50°C before adding 2 vials each of selective supplements NCM4020-0.5* and NCM4021-0.5*, each reconstituted using 5mL of sterile deionized/RO water.

*Larger vials may be available. Please see appropriate supplement data sheet for availability and preparation instructions.

## Test Procedure

Pour plates, 1ml sample plus 9mL medium. When set overlay with sterile medium.
Incubate at 37°C anaerobically for 24 hours.

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**Quality Control Specifications**
**Dehydrated Appearance:** Powder is homogeneous, free flowing and beige.

**Prepared Appearance:** Prepared medium is a clear tan gel.

**Minimum QC:**
*Clostridium perfringens* WDCM 00007
*Escherichia coli* WDCM 000013

**Results**
Refer to appropriate references for results.

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

**Limitations of the Procedures**
Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

**Storage**
Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

**References**

1. Bowen AB, Braden CR (2006). "Invasive *Enterobacter sakazakii* disease in infants". *Emerging Infect Dis* 12 (8): 1185–9.
2. Handford, P.M. (1974). A new medium for the detection and enumeration of *C. perfringens* in foods. *J. Appl. Bact*. 37: 559-570.
3. Hauschild A.H.W. and Hilsheimer R. (1973). Evaluation and Modifications of Media for Enumeration of Clostridium perfringens. *Applied Microbiology* 27 p78-82.
4. Shahidi, S.A. and Ferguson, A.R. (1971). A new quantitative and confirmatory medium for *C. perfringens* in food. *Appl. Microbiol*. 21:500-506.
5. Marshall, R.S., Steenberger, J.F. and McClung, L.S. (1965). A rapid technique for the enumeration of *C. perfringens. Appl. Microbiol*. 13: 559.
6. Pharmacopoeia of culture media for food microbiology. (1987). *Int. J. Food Microbiol.* 5:3:240-241.


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