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)

ADDRESS (15431) 경기도 안산시 단원구 풍전로 37-9 트리플렉스 301동 118호
TEL 0507-1374-9229
FAX 0504-481-6749
E-MAIL bkkim@snapshoot.co.kr

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

SNAPSHOOT
ENGINEERED FOR A SAFER TOMORROW

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.

Pseudomonas Broth, 2 mL

Product Number: 6540



Medium Composition	
Enzymatic Digest of Gelatin	20.0 g
Magnesium Chloride	1.4 g
Potassium Sulfate	10.0 g
CFC Supplement	70.0 mg
Final pH: 7.2 ± 0.2 at 25°C	

Formula may be adjusted and/or supplemented as required to meet performance specifications.

Physical Characteristics
Appearance of Medium: Clear to slightly hazy with no to trace precipitate, pale to light yellow
pH at 25°C: 7.1 ± 0.2

Intended Use

Pseudomonas Broth, 2 mL is a selective medium used for enumerating *Pseudomonas aeruginosa* and other *Pseudomonas* spp. in water and in various other applications by the membrane filtration method.

Product Summary

Ampouled *Pseudomonas* Broth, 2 mL is a prepared, ready to use medium for membrane filtration testing. This medium is a modification of King's A medium[1] and used for the detection and enumeration of pseudomonads in water and in other applications where membrane filtration methods are used.

Principles of the Procedure

Enzymatic digest of gelatin provides nitrogen, carbon, and minerals in *Pseudomonas* Broth. Magnesium chloride and potassium sulfate enhance the production of pyocyanin and fluorescein dyes elaborated by some pseudomonads.[1] The *CFC* supplement is a selective supplement used to inhibit gram-positive organisms and gram-negative bacteria other than *Pseudomonas* species.

Test Procedure

Preparation

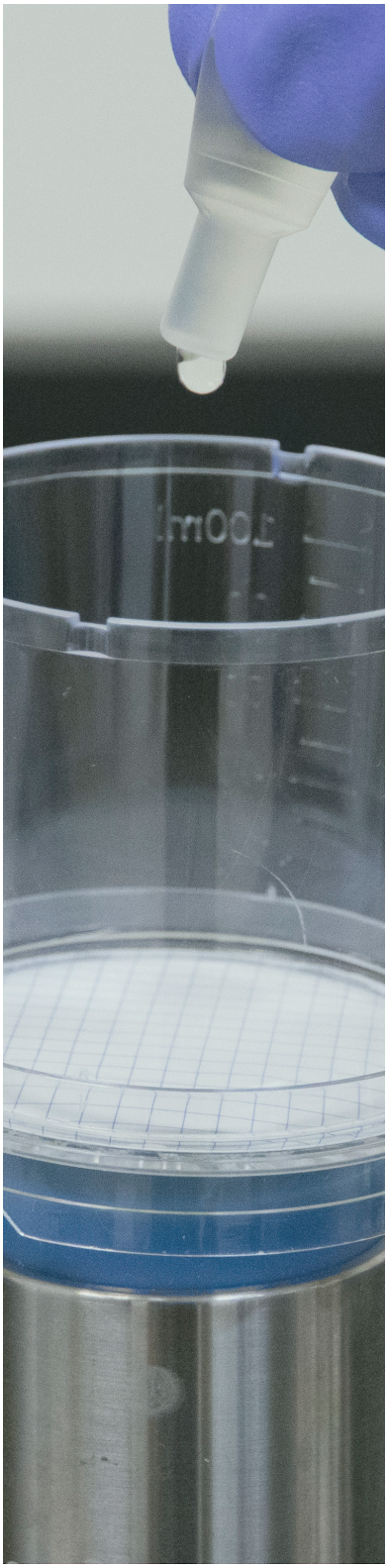
1. Assemble the manifold or filtration flask that will supply the vacuum source, complete with rubber stopper.
2. Using a gentle twisting motion, secure the funnel adapter into the stopper.
3. Using the same gentle twisting motion, secure the NEOGEN Filter onto the funnel adapter.

Filtration Procedure

1. Remove filtration cover and carefully pour the sample onto the filter.
2. Apply vacuum just long enough to pull the sample through the filter. (If using a manifold, open only one valve at a time.)
3. Rinse the inside walls of the filter funnel with approximately 20 mL of sterile buffered solution. Apply vacuum just long enough to pull the solution through the filter, and turn off vacuum. Note: this step is optional if only water is being tested.

NEOGEN
NEOGEN.com

© NEOGEN Corporation, 2020. NEOGEN is a registered trademark of NEOGEN Corporation, Lansing 48912 USA



4. Briefly remove the filter and its funnel adapter from the stopper to release any remaining vacuum pressure, and then resecure into the stopper.
5. Add *Pseudomonas* Broth onto the top of the filter. When doing so, be careful not to touch the filter with the tip of the ampoule.
6. Very briefly apply vacuum so that the media does not pool on top of the filter, and is visible underneath the filter. (Note: the media has been soaked correctly into the filter if there is a small pocket of air around the bottom port. The filter should be moist, but not oversaturated or dry.)
7. Remove and appropriately discard the plastic funnel. Place the filtration system cover over the filter/base assembly converting the unit to a petri dish for sample incubation.
8. Remove the filter from the funnel adapter and place a plug on the open bottom port.
9. Place the filtration plate into the incubator inverted so that the cover is on the bottom, and incubate at the appropriate temperature for isolation of the target *Pseudomonas* strains. See note 4 under the limitations of the procedure. Read and record results after 40–48 hours.
10. Dispose of test materials in accordance with all applicable local, state, and federal regulations.

Expected Cultural Response

Sterile water was added to sterile filtration units and inoculated with the cultures listed below. The inoculum was filtered followed by the ampoulized *Pseudomonas* Broth and the filtration housing removed. Plates were incubated aerobically at 35 ± 2°C for the *P. aeruginosa* strains and at 30 ± 2°C for the *P. fluorescens* strain and examined for growth and reactions at 24–48 hours.

© NEOGEN Corporation, 2020. NEOGEN is a registered trademark of NEOGEN Corporation, Lansing 48912 USA

Microorganisms	Approx . Inoculum (CFU)	Expected Results*
Uninoculated Media	N/A	No Growth
Pseudomonas aeruginosa — ATCC 27853	10–300	≥ 85% Recovery, beige w/ a slight green hue; blue to green fluorescence at 365nm
Pseudomonas aeruginosa — ATCC 10145	10–300	≥ 85% Recovery, green colonies; blue to green fluorescence at 365nm
Pseudomonas fluorescens — ATCC 13525	10–300	≥ 85% Recovery, off-white to beige colonies; blue to green fluorescence at 365nm
Escherichia coli — ATCC 25922	300–1,000	Suppressed to Inhibited
Proteus mirabilis — ATCC 12453	300–1,000	Suppressed to Inhibited

** Examine at 18–24 hour and at 40-48 hour.*

Results: Examine filters for the presence of green, blue, or blue-green colonies indicating presumptive isolation of *P. aeruginosa*. Examine filters for the presence of off-white to beige colonies indicating presumptive isolation of *P. fluorescens*. Examination of the presumptive positive pseudomonads under long wavelength ultraviolet light (365 nm) will further identify the fluorescing species such as *P. aeruginosa* and *P. fluorescens*. Report the pseudomonads density in terms of total pseudomonads/100 mL. Non-pseudomonads or non-dye-producing pseudomonads may form colorless to straw-colored colonies where recovered.

Storage: Store ampouled *Pseudomonas* Broth, 2 mL at 2–8°C.

Expiration: Refer to expiration date printed on the front of the box container.

Limitations of the Procedure

1. Analyze sample as soon as possible after collection.
2. Samples containing colloidal or suspended particulate material can clog the membrane filter, thereby prevent filtration, or cause spreading of bacterial colonies which could interfere with colony identification.
3. If the inoculum is too heavy, differentiation of target colonies may be confusing since any dyes elaborated into the medium may spread underneath any other recovered bacterial colonies.
4. Clinical specimens may be recovered at 35 ± 2°C while environmental isolates or psychrotrophs may be recovered at 20–32°C.

NEOGEN Items		
6540	Pseudomonas Broth, 2 mL	Box of 50
6550	NEOGEN Filter — White	Box of 50

References

1. King E.O., Ward M.K. and Raney D.E. (1954) J. Lab. & Clin. Med. 44, 301-307

NEOGEN®
NEOGEN.com

© NEOGEN Corporation, 2020. NEOGEN is a registered trademark of NEOGEN Corporation, Lansing 48912 USA