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.

Record ID: FS-TSS-0278 Revision Number: 1.0 Effective Date: 2023-08-10 12:00 AM EDT

A-1 Medium
SKU: 700003328, 700003329, 700003330, 700003331
NCM0124

Intended Use
A-1 Medium is used for the detection of coliform organisms in water and food in a laboratory setting. A-1 Medium is not intended for use in the diagnosis of disease or other conditions in humans.

Description
Since the early 1900's enumeration of coliform organisms, specifically *E. coli*, have been used to determine water purity. Elevated temperature and most-probable-number (MPN) methods are routinely used for analysis of water and food samples for presence of fecal coliforms. A-1 Medium was formulated to hasten *E. coli* recovery and reduce the incidence of false positive cultures.

In 1972 Andrews and Presnell developed A-1 Medium. This medium recovers *E. coli* from estuarine water in 24 hours instead of 72 hours, and in greater numbers without the pre-enrichment step. A-1 Medium can be used in a single step procedure for the detection of fecal coliforms in source water, seawater, treated wastewater, and foods. A-1 Medium conforms to standard methods for the isolation of fecal coliforms in water and foods.

Typical Formulation

Enzymatic Digest of Casein	20.0 g/L
Lactose	5.0 g/L
Sodium Chloride	5.0 g/L
Salicin	0.5 g/L
Triton X-100	1.0 g/L

Final pH: 6.9 ± 0.2 at 25°C
Formula is adjusted and/or supplemented as required to meet performance specifications.

Precaution
Refer to SDS

Preparation
1. Dissolve 31.5 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Distribute into test tubes containing Durham tubes.
4. Autoclave at 121°C for 10 minutes.

Quality Control Specifications
Dehydrated Appearance: Powder is homogeneous, free-flowing, forms soft lumps, and light beige to beige.

Prepared Appearance: Prepared medium is clear, may have a light precipitate, and light yellow to amber.

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Expected Cultural Response: Cultural response in A-1 Medium were incubated aerobically at 35 ± 2°C for 3 hours and then examined for growth following transfer to a 44.5°C waterbath for 19 – 22 hours.

Microorganism	Approx. Inoculum (CFU)	Expected Results	
		Recovery	Gas
Escherichia coli ATCC® 25922	10 - 300	Growth	+
Escherichia coli ATCC® 35218	10 - 300	Growth	+
Proteus mirabilis ATCC® 12453	10 - 300	Growth	-
Pseudomonas aeruginosa ATCC® 27853	1000	Partial to complete inhibition	-

The organisms listed are the minimum that should be used for quality control testing.

Test Procedure

1. Inoculate tubes of A-1 Medium as directed in standard methods.
2. Incubate at 35 ± 0.5°C for 3 hours.
3. Transfer tubes to a water bath at 44.5 ± 0.2°C and incubate for an additional 21 ± 2 hours.
4. Maintain water level in bath above level of liquid in inoculated tubes.

Results

Gas production in the inverted vial, or dissolved gas that forms fine bubbles when slightly agitated, is a positive reaction indicating the presence of fecal coliforms. For MPN, calculate fecal coliform densities using tables from standard methods.

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if appearance has changed from the original color and texture. Expiry applies to medium in its intact container.

Limitations of the Procedure

1. Due to nutritional variation, some strains may grow poorly or fail to grow on this medium.
2. Fecal coliform counts are usually greater than *E. coli* counts.
3. Interpretation of tests using A-1 Medium requires understanding of the microflora of the specimen.

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. Andrews, W. H., and M. W. Presnell. 1972. Rapid recovery of *Escherichia coli* from estuarine water. Appl. Microbiol. 23:521-523.
2. Andrews, W. H., C. D. Diggs, and C. R. Wilson. 1975. Evaluation of a medium for the rapid recovery of *Escherichia coli* from shellfish. Appl. Microbiol. 29:130-131.
3. Eaton, A. D., L. S. Clesceri, and A. E. Greenberg (eds.). 2017. Standard methods for the examination of water and wastewater, 23rd ed. American Public Health Association, Washington, D.C.
4. Vanderzant, C., and D. F. Splittstoesser (eds.). 2015. Compendium of methods for the microbiological examination of food, 4th ed. American Public Health Association, Washington, D.C.
5. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalytical manualBAM/default.htm.