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

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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-0250 Revision Number: 2.0 Effective Date: 2023-08-07 12:00 AM EDT

Modified Buffered Peptone Water with Pyruvate
SKU: 700003201, 700003202, 700003203, 700003204
NCM0084

Intended Use

Modified Buffered Peptone Water with Pyruvate (mBPWp) is used for the isolation of Enterohemorrhagic *E. coli* (EHEC) in a laboratory setting. Modified Buffered Peptone Water with Pyruvate (mBPWp) is not intended for use in the diagnosis of disease or other conditions in humans.

Description

Enterohemorrhagic *E. coli* (EHEC) are recognized as the primary cause of hemorrhagic colitis (HC) or bloody diarrhea. This infection can also lead to hemolytic uremic syndrome (HUS). Enterohemorrhagic infections are usually food or water borne and have been implicated in undercooked ground beef, raw milk, lunchmeat, water, unpasteurized apple cider, sprouts and vegetables.

Modified Buffered Peptone Water with Pyruvate is recommended in the sample preparation for the screening method following FDA/BAM Enterohemorrhagic *E. coli* (EHEC) Protocol. After the sample is incubated for five hours in Modified Buffered Peptone Water with Pyruvate, Cefsulodin, Acriflavin and Vancomycin are added, followed by an additional incubation period. These antimicrobic supplements effectively suppress normal flora, while allowing the growth of viable O157:H7 cells (including STEC) and is capable of detecting <1 cfu/g in foods. Improved recovery of pathogenic *E. coli* from difficult commodities was achieved with Modified Buffered Peptone Water with Pyruvate enrichment.

Typical Formulation

Enzymatic Digest of Casein	10.0 g/L
Lactose	10.0 g/L
Yeast Extract	6.0 g/L
Acid Digest of Casein	5.0 g/L
Sodium Chloride	5.0 g/L
Sodium Phosphate, dibasic	3.6 g/L
Potassium Phosphate, monobasic	1.5 g/L
Sodium Pyruvate	1.0 g/L

Final pH: 7.2 ± 0.2 at 25°C
Formula is adjusted and/or supplemented as required to meet performance specifications.

Precaution

Refer to SDS

Preparation

1. Dissolve 42.1 g of the medium in one liter of purified water.
2. Mix thoroughly.
3. Autoclave at 121°C for 15 minutes.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing, and light beige.

Prepared Appearance: Prepared medium is clear and light to dark amber.

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Expected Cultural Response: Cultural response in Modified Buffered Peptone Water with Pyruvate incubated aerobically at 37 ± 1°C and examined for growth at 18 - 24 hours.

Microorganism	Approx. Inoculum (CFU)	Expected Results
Escherichia coli ATCC® 25922	10 - 300	Good growth
Escherichia coli O157:H7 ATCC® 35150	10 - 300	Good growth
Salmonella typhimurium ATCC® 14028	10 - 300	Good growth

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

Test Procedure

Refer to the BAM Manual for complete directions on sample preparation. After the sample has been prepared, material will be placed in Modified Buffered Peptone Water with Pyruvate and incubated at 37 ± 1°C for 5 hours. Next add 1 mL each of Acriflavin (10 mg/L), Cefsulodin (10 mg/L), Vancomycin (8 mg/L) and incubate homogenate at 42 ±1°C for 18 – 24 hours.

Results

Refer to FDA, Bacteriological Analytical Manual (BAM).

Expiration

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

Limitation of the Procedure

Due to nutritional variation, some strains may be encountered that grow poorly.

Storage

Store sealed bottle containing the dehydrated medium at 2 - 30°C. 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. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalyticalManualBAM/default.htm.
2. Smart Cycler Operator Manual. 1999. USA.
3. Weagant, S. D. and A. J. Bound. 2001. Comparison of Methods for Enrichment and Isolation of *Escherichia coli* O157:H7 from Artificially Contaminated Salad Mixes. Laboratory Information Bulletin, LIB 4258, Aug. 2001.

620 Lesher Place • Lansing, MI 48912
800-234-5333 (USA/Canada) • 517-372-9200
foodsafety@neogen.com • foodsafety.neogen.com