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.

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Columbia Broth
SKU: 700003440, 700003441, 700003442, 700003443
NCM0162

Intended Use
Columbia Broth is used for the cultivation of a wide variety of fastidious microorganisms in a laboratory setting. Columbia Broth is not intended for use in the diagnosis of disease or other conditions in humans.

Description
Columbia Broth is prepared according to the formula described by Morello and Ellner. During their study, Columbia Broth was developed as a medium for blood cultures and found superior to a commonly used broth for growth of *Staphylococcus aureus*, *E. coli,* and streptococci.

Typical Formulation

Enzymatic Digest of Casein	5.0 g/L
Enzymatic Digest of Animal Tissue	5.0 g/L
Yeast Extract	10.0 g/L
Enzymatic Digest of Heart Muscle	3.0 g/L
Sodium Chloride	5.0 g/L
Dextrose	2.5 g/L
L-Cystine	0.1 g/L
Magnesium Sulfate	0.1 g/L
Ferrous Sulfate	0.02 g/L
Tris (hydroxymethyl) aminomethane	0.83 g/L
Tris (hydroxymethyl) aminomethane-HCl	2.86 g/L
Sodium Carbonate	0.6 g/L

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

Precaution
Refer to SDS

Preparation
1. Dissolve 35 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 beige.

Prepared Appearance: Prepared broth is gold to amber, brilliant to clear and with trace to moderate precipitate.

Expected Cultural Response: Cultural response in Columbia Broth incubated at appropriate atmosphere and temperature and examined for growth at 1 – 3 days.

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Microorganism	Approx. Inoculum (CFU)	Expected Results
Bacillus fragilis ATCC® 25285	10 - 300	Growth
Escherichia coli ATCC® 25922	10 - 300	Growth
Neisseria meningitidis ATCC® 13090	10 - 300	Growth
Streptococcus pneumoniae ATCC® 6305	10 - 300	Growth
Streptococcus pyogenes ATCC® 19615	10 - 300	Growth

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

Test Procedure

Process each sample as appropriate. Refer to correct references for specific procedures.

Results

Examine medium for growth. Gram-negative bacilli tend to grow diffusely, Gram-positive cocci exhibit puff-ball type growth, and strict aerobes, such as pseudomonads and yeast, usually grow in a thin layer on the surface of the broth. To ensure no growth is present, subculture inoculated and incubated Columbia Broth to appropriate non-selective media.

Expiration

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

Limitations of the Procedure

1. Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.
2. Opalescence in Columbia Broth cannot always be relied upon as evidence of bacterial growth.
3. It is possible for significant number of viable bacteria to be present in an inoculated and incubated blood culture bottle without the usual signs of bacterial growth.

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. Morello, J. A., and P. D. Ellner. 1969. New medium for blood cultures. Appl. Microbiol. 17:68-07.
2. Isenberg, H. D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1 American Society for Microbiology, Washington, D.C.
3. Murray, P. R., E. J. Baron, M. A. Pfaller, F. C. Tenover, and R. H. Yolken (eds.). 1995. Manual of clinical microbiology, 6th ed. American Society of Microbiology, Washington, D.C.

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