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.

YM-11 AGAR (6904)

Intended Use

YM-11 Agar is used for the selective enumeration of yeasts and molds using the ISO-GRID® and/or NEO-GRID™ Membrane Filtration System in a laboratory setting. YM-11 Agar is not intended for use in the diagnosis of disease or other conditions in humans.

Product Summary and Explanation

YM-11 Agar was formulated to stimulate rapid growth and colonial development of a wide range of fungi. Peptone sources were selected to maximize growth is this medium. YM-11 Agar is buffered at a neutral pH, and selective agents were included to inhibit bacteria growth.

YM-11 Agar is recommended for the rapid enumeration of yeasts and molds in all foods using the ISO-GRID and/or NEO-GRID Membrane Filtration System method.[1,2]

Principles of the Procedure

Enzymatic Digest of Soybean Meal and Enzymatic Digest of Casein are the nitrogen and vitamin sources in YM-11 Agar. Dextrose is the fermentable carbohydrate. Sodium Chloride maintains the osmotic balance. Potassium Phosphate, Dibasic is a buffering agent. Trypan Blue is a nontoxic dye, staining yeasts and molds colonies blue to enhance their visibility.[3] Chloramphenicol and Chlortetracycline-HCl are selective agents used to inhibit bacterial growth. Agar is the solidifying agent.

Formula / Liter

Enzymatic Digest of Soybean Meal	20 g
Enzymatic Digest of Casein	20 g
Dextrose	5 g
Sodium Chloride	5 g
Potassium Phosphate, Dibasic	2.4 g
Trypan Blue	0.03 g
Chloramphenicol	0.1 g
Agar	15 g

Final pH: 7.0 ± 0.2 at 25°C

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

Presterilized Antibiotic Supplement, Chlortetracycline-HCl, 20 mL (6912E)

To reconstitute, aseptically add 100 mL sterile distilled water to a bottle containing 0.5 g pre-sterilized powder and shake to dissolve. Store Chlortetracycline solution at 2 - 8°C for up to 60 days.

Precautions

1. For Laboratory Use Only.
2. TOXIC. Toxic by inhalation and if swallowed. Irritating to eyes, respiratory system, and skin. May cause cancer.

Directions

1. Suspend 67.5 g of the medium in one 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. Cool to 45 - 50°C. Aseptically add 20 mL of a 0.5 A% (wt/v) aqueous solution of Chlortetracycline HCl. Mix thoroughly.
5. Check pH and adjust, if necessary to obtain a final pH of 7.0 ± 0.2 in the solidified medium.
6. Dispense 18 - 20 mL volumes into Petri dishes, cool until plates are solidified.

Quality Control Specifications

Dehydrated Appearance: Powder is homogeneous, free flowing, and tan.

Prepared Appearance: Prepared medium is clear to trace hazy and dark blue-gray.

Expected Cultural Response: Cultural response on YM-11 Agar, supplemented with Chlortetracycline-HCl, using the ISO-GRID and/or NEO-GRID Membrane Filtration System method. Inoculated YM-11 Agar was incubated at the appropriate atmosphere and temperature and examined for growth up to 52 hours.

Microorganism	Approx. Inoculum (CFU)	Expected Results	Expected Reactions
Aspergillus niger ATCC® 16404	10 - 300	Good to excellent growth	Blue colonies
Saccharomyces cerevisiae ATCC® 9763	10 - 300	Good to excellent growth	Blue colonies
Bacillus subtilis QA-057	1000	Inhibited	---
Escherichia coli ATCC® 25922	1000	Inhibited	---

Test Procedure

For sample details refer to the ISO-GRID Methods Manual and NEO-GRID Protocols.

1. Prepare a sample homogenate.
2. Filter 1 mL of the homogenate through the pre-filter and ISO-GRID membrane filter.
3. Place the membrane filter on the surface of a pre-dried YM-11 Agar plate.
4. Incubate the inoculated YM-11 Agar in an inverted position in a dry air incubator at 25 ± 1°C for 50 ± 2 hours.
5. Examine membrane filter for colonies.

Results

Yeast colonies appear blue. Molds appear blue-grey. If no blue or blue-grey colonies are present, the test for yeast and molds is complete. Results are reported as less than 10 yeasts and mold per gram.

If positive colonies are present, count the number of positive squares (those containing one or more colonies). The number of positive squares are converted to the corresponding most probably number (MPN) using one of the methods described in the ISO-GRID Methods Manual, and the yeast and mold MPN per gram is calculated.

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.

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.

Limitations of the Procedure

1. Some strains may be encountered that grow poorly or fail to grow on this medium.
2. Antimicrobial agents incorporated into a medium to inhibit bacteria may also inhibit certain pathogenic fungi. Non-selective fungal media should be used concurrently with selective media when isolating fungi.

Packaging

YM-11 Agar **Code No.** **6904A** **500 g**

References

1. **Entis, P.** 1996. Two-day hydrophobic grid membrane filter method for yeast and mold enumeration in food using YM-11 Agar: collaborative study. J. AOAC Int. **79**:1069-1082.
2. **Entis, P., and I. Lerner.** 1996. Two-day yeast and mold enumeration using the ISO-GRID membrane filter system in conjunction with YM-11 Agar. J. Food Prot. **59**:416-419.
3. **Lin, C.C.S., D. Y. C. Fung, and P. Entis.** 1984. Growth of yeast and mold on Trypan Blue Agar in conjunction with the ISO-GRID system. Can J. Microbiol. **30**:1405-1407.

Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)372-2006.

NEOGEN CORPORATION
620 Lesher Place, Lansing MI 48912
517/372-9200 • 800/783-3212 • fax: 800/875-8563
neogen-info@neogen.com • www.neogen.com