

PRODUCT INFORMATION AND QUALITY CONTROL SHEET

SABOURAUD DEXTROSE AGAR w/ LECITHIN & TWEEN 80 CONTACT PLATE

I. INTENDED USE

Contact plates are used for the detection and enumeration of microorganisms present on surfaces of sanitary importance. Sabouraud Dextrose Agar w/ Lecithin & Tween 80 is used for the isolation of fungi from surfaces sanitized with quaternary ammonium compounds.

II. SUMMARY AND EXPLANATION

Environmental sampling plates are manufactured so that the agar medium can be filled to produce a meniscus or dome-shaped surface that can be pressed onto a surface for sampling its microbial burden. After touching the surface to be sampled with the medium, the dish is covered with the lid and incubated at an appropriate temperature. The presence or absence of microorganisms is determined by the appearance of colonies on the surface of the agar medium.

Sabouraud Dextrose Agar (SDA) is a modification of Dextrose Agar described by Sabouraud.¹ SDA is used for cultivating pathogenic and commensal fungi and yeasts. The high dextrose concentration and acidic pH of the formula permits selectivity of fungi.² The addition of Lecithin and Tween 80 to Sabouraud Dextrose Agar is used to neutralize antiseptics and disinfectants for environmental monitoring and other applications.³ Complete neutralization of disinfectants is important. Disinfectant carryover can cause false no-growth test results.

III. PRINCIPLES OF THE PROCEDURE

Enzymatic Digest of Casein and Enzymatic Digest of Animal Tissue provide nitrogen and vitamin sources required for organism growth. Dextrose is included as an energy source. Lecithin neutralizes quaternary ammonium compounds and ethanol and Tween 80 neutralizes phenols, hexachlorophene and formalin. Agar is the solidifying agent.

IV. TYPICAL FORMULA AND APPEARANCE

Appearance = trace to slightly hazy and pale yellowish white in color.

(Approximate formula* per liter of processed water)

Enzymatic Digest of Casein	5 g
Enzymatic Digest of Animal Tissue.....	5 g
Dextrose.....	40 g
Lecithin.....	0.7 g
Tween 80	5 g
Agar	15 g

Final pH: 5.6 ± 0.2 at 25°C

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

V. PRECAUTIONS

This product is for IN VITRO diagnostic use only. Strict adherence to aseptic techniques and established precautions against microbiological hazards should be followed throughout the procedure. Carefully dispose of all items, which contact specimens.

VI. STORAGE/SHELF LIFE

Plated media should be stored at 2-8°C (36-46°F), media side up, in the unopened or resealed package protected from light. DO NOT FREEZE OR EXPOSE TO HIGH TEMPERATURES. Allow unopened plates to warm to room temperature prior to inoculation. Prior to and during inoculation procedures, plates should be handled in a manner that minimizes product exposure to the environment. Product that has exceeded the assigned expiration date noted on the label should not be used. Do not use plates that exhibit evidence of drying, cracking,

discoloration, microbial contamination or any other signs of deterioration. The presence of excessive condensate may indicate plates that have been damaged by exposure to temperature extremes.

VII. SPECIMEN COLLECTION

This product is not for use directly with clinical specimens. Proper specimen collection techniques must be followed to ensure the most accurate culture results. Plates should be incubated promptly after inoculation.

VIII. MATERIALS PROVIDED

Sabouraud Dextrose Agar w/ Lecithin & Tween 80 Contact Plates (10/pkg)

IX. MATERIALS REQUIRED BUT NOT PROVIDED

Ancillary culture media, reagents and laboratory equipment as required.

X. PROCEDURE

Carefully remove a single plate from the bag and remove lid. Invert plate and press agar firmly on surface to be tested. Note: Use firm but equal pressure on plate to ensure uniform sampling. Incubate the inoculated plates at 25-37°C, agar side up for up to one week. Examine cultures at least every other day for fungal growth.

XI. EXPECTED RESULTS

NCCLS CONTROL ORGANISMS (ATCC STRAINS)

<i>Candida albicans</i> (ATCC 10231)	Growth
<i>Saccharomyces cerevisiae</i> (ATCC 9763)	Growth
<i>Aspergillus niger</i> (16404)	Growth

XII. LABORATORY RESULTS

Identification of fungal organisms may be made on the basis of typical gross colony morphology, microscopic characteristics, and physiologic and pathologic characteristics. Yeasts grow creamy to white colonies. Molds will grow fuzzy colonies of various colors. Additional test procedures should be used to confirm findings.

XIII. LIMITATIONS

The ability to detect yeasts, molds and fungi by culture techniques can be affected by the following factors: improper specimen collection, storage and inoculation, improper culture incubation temperatures and atmospheres, improper length of culture incubation, and improper storage and handling of culture media.

XIV. REFERENCES

1. Sabouraud, R. 1892. Ann. Dermatol. Syphilol. 3:1061.
2. Jarrett, L., and A. C. Sonnenwirth (eds.). 1980. Gradwohl's and parasitic infections, 7th ed. American Public Health Association, Washington, D.C.
3. Curry, A. S., J. G. Graf, and G. N. McEwen, Jr. (eds.). 1993. CFTA Microbiology Guidelines. The Cosmetic, Toiletory and Fragrance Association, Washington, D.C.

USER QUALITY ASSURANCE/ QUALITY CONTROL PROCEDURES AND INFORMATION

HealthLink recommends that the following quality assurance and quality control procedures be performed on each batch of product.

I. QUALITY ASSURANCE

The following quality assurance procedures must be performed to assure the product will perform according to its intended use within the assigned expiry date:

1. Daily, document that product storage refrigerator maintains temperature within 2-8°C.
2. Daily, document that laboratory incubator maintains temperature within the recommended range: 22-37°C.

II. QUALITY CONTROL

The following incoming inspection procedures must be performed for each batch (batch = same lot, same shipment) of culture media received in the laboratory:

Inspect plates according to instructions contained in the Section VI "STORAGE/SHELF LIFE"

Note: Notify Technical Service immediately if media does not meet the inspection criteria.

TECHNICAL SERVICE

HealthLink provides a toll free technical service line (1-800-638-2625) to assist with product usage. To have technical questions answered; please call between the hours of 9:00 am to 5:00 pm EST.

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