PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD399/303T/303M –

TSA + LECITHIN + POLYSORBATE 80 (IRRADIATED)

Intended Use:

Tryptic Soy Agar with Lecithin and Tween 80 is used for the isolation of microorganisms from surfaces sanitized with quaternary ammonium compounds and is not intended for use in the diagnosis of disease or other conditions in humans.

Principle:

Tryptic Soy Agar is a nutritious base and a variety of supplements are added to enhance the medium, including Lecithin and Tween 80. The Lecithin and Tween 80 inactivate some preservatives that may inhibit bacterial growth, reducing "preservative carryover". Tryptic Soy Agar with Lecithin and Tween 80 is recommended for determining the sanitation efficiency of containers, equipment, and work area (environmental monitoring).

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Composition

Enzymatic Digest of Casein 15.0 g/L
Enzymatic Digest of Soybean Meal 5.0 g/L
Sodium Chloride 5.0 g/L
Lecithin 0.7 g/L
Tween 80 5.0 g/L
Agar 22 g/L

References

1. Leavitt, J. M., I. J. Naidorf and P. Shugaevsky. 1955. The undetected anaerobe in endodontics: a sensitive medium for detection of both aerobes and anaerobes. The NY J. Dentist. 25:377-382.
2. Orth, D. S. 1993.Handbook of cosmetic microbiology. Marcel Dekker, Inc., New York, NY.
3. Quisno, R., I. W. Gibby, and M. J. Foter. 1946. A neutralizing medium for evaluating the germicidal potency of the quaternary ammonium salts. Am. J. Pharm. 118:320-323.
4. Erlandson, A. L., Jr., and C. A. Lawrence. 1953. Inactivating medium for hexachlorophene (G-11) types of compounds and some substituted phenolic disinfectants. Science 118:274-276.
5. Brummer, B. 1976. Influence of possible disinfectant transfer on Staphylococcus aureus plate counts after contact sampling. App. Environ. Microbiol. 32:80-84.
6. Favero (chm.). 1967. Microbiological sampling of surfaces – a state-of-the-art report. Biological Contamination Control Committee, American Association of Contamination Control.

Storage: 2°-25°C
pH: 7.1 - 7.5
Appearance: Slight hazy, amber
Gamma Irradiation (kGy) Range: 5 – 15

Package contents: 10 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation.
Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal
After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results:
GPT: inoculum 10-100 cfu

Test	ATCC NO	Incubation Temp. (℃)	Incubation Cond.	Reaction 1
Kocuria rhizophila (M.luteus)	9341	30-35 ℃	Aerobic, 48 hours	Growth
Staphylococcus aureus	6538	30-35 ℃	Aerobic, 48 hours	Growth
Bacillus subtilis	6633	30-35 ℃	Aerobic, 48 hours	Growth
Escherichia coli	8739	30-35 ℃	Aerobic, 48 hours	Growth
Pseudomonas paraeruginosa	9027	30-35 ℃	Aerobic, 48 hours	Growth
Candida albicans	10231	30-35 ℃	Aerobic, 48 hours	Growth
Aspergillus brasiliensis	16404	30-35 ℃	Aerobic, 48 hours	Growth
Candida albicans.	10231	20-25 ℃	Aerobic, 3-5 days	Growth
Aspergillus brasiliensis	16404	20-25 ℃	Aerobic, 3-5 days	Growth

Neutralizer's Effectiveness Test

Test	ATCC NO	Incubation Temp. (℃)	Incubation Cond.	Reaction 1
Candida albicans	10231	30-35 ℃	Aerobic, 48 hours	Confluent growth
Aspergillus brasiliensis	16404	30-35 ℃	Aerobic, 48 hours	Confluent growth
Escherichia coli	8739	30-35 ℃	Aerobic, 48 hours	Confluent growth
Bacillus subtilis	6633	30-35 ℃	Aerobic, 48 hours	Confluent growth
Disinfectant: 1.2% Glyoxal 0.05% glutardialdehyde 0.75% dodecyl-dimethyl-ammonium chloride				

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