PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD139 - TSA IRRADIATED

PD139/M - TSA IRRADIATED Lockable petri dish

Intended Use:

Tryptic Soy Agar is used for the preparation and maintenance of test strains used in growth promotion tests, suitability of the counting methods and as negative controls as described in the Harmonized USP/EP/JP. It is also a support plating medium for various protocols described in the microbial enumeration test section of the Harmonized USP/EP/JP. Tryptic Soy Agar is not intended for use in the diagnosis of disease or other conditions in humans. Enzymatic digests of casein and soybean act as a source of nitrogen and amino acid and sodium chloride maintains the osmotic balance.

Application

Tryptic Soy Agar (TSA) is a general-purpose agar medium used in microbiology for the cultivation, isolation, and enumeration of a wide variety of microorganisms. It provides a nutrient-rich environment that supports the growth of a broad spectrum of bacteria, yeasts, and molds. TSA is commonly utilized in various applications in microbiology laboratories.

Test Procedure

Expected Cultural: Cultural response on Tryptic Soy Agar tested at Harmonized USP/EP specified temperatures and incubation times.

Limitations of the Procedures

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

References

1. European Pharmacopoeia 10th Edition (2020)
2. 2. United States Pharmacopeia National Formulary 2018: USP 41 NF 36
3. 3. Japanese Pharmacopeia 17th Edition (2017)
4. 4. Orth, D. S. 1993. Handbook of cosmetic microbiology. Marcel Dekker, Inc., New York, NY.
5. 5. Greenberg, A. E., L. S. Clesceri, and A. D. Eaton (eds.). 2017. Standard methods for the examination of water and wastewater, 23rd ed. American Public Health Association, Washington, D.C.
6. 6. www.fda.gov/Food/ScienceResearch/LaboratoryMethods/BacteriologicalAnalytical
7. manualBAM/default.htm.
8. 7. Curry, A. S., G. G. Joyce, and G. N. McEwen, Jr. 1993. CTFA Microbiology guidelines. The Cosmetic, Toiletry, and Fragrance Association, Inc. Washington, D.C.
9.

Composition

Enzymatic Digest of Casein	15.0 g/L
Enzymatic Digest of Soybean	5.0 g/L
Sodium Chloride	5.0 g/L
Agar	18.0 g/L

Storage: 2°-25°C
pH: 7.1 – 7.5
Appearance: yellow beige, slightly hazy
Package contents: 10 plates in a package
Shelf life: 3 months
Gamma Irradiation (kGy) Range: 25 – 40
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.

Performance Testing Results:
GPT: Inoculum 10-100 cfu.

MICROORGANISM	ATCC	Incubation Temp. (°C)	Incubation Cond.	Recovery
Staphylococcus aureus	6538	30-35 °C	Aerobic, 48 hours	Growth
Bacillus cereus	14579	30-35 °C	Aerobic, 48 hours	Growth
Escherichia coli	8739	30-35 °C	Aerobic, 48 hours	Growth
Pseudomonas paraeruginosa	9027	30-35 °C	Aerobic, 48 hours	Growth
Bacillus subtilis	6633	30-35 °C	Aerobic, 48 hours	Growth
Kocuria rhizophila (M.luteus)	9341	30-35 °C	Aerobic, 48 hours	Growth
Candida albicans	10231	30-35 °C	Aerobic, 48 hours	Growth
Aspergillus brasiliensis	16404	30-35 °C	Aerobic, 48 hours	Growth
Candida albicans.	10231	30-35 °C	Aerobic, 3-5 days	Growth
Aspergillus brasiliensis	16404	20-25 °C	Aerobic, 3-5 days	Growth

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