TSP 007GT - SOYABEAN CASEIN DIGEST AGAR PLATE W1% GLYCEROL (γ-IRRADIATED) (TRIPLE PACK)

INTENDED USE
For cultivation of fastidious and non-fastidious microorganisms

PRODUCT SUMMARY AND EXPLANATION
SOYA CASEIN DIGEST AGAR, commonly known as Tryptone Soya Agar is a multipurpose growth medium which supports the growth of a wide variety of microorganisms. Because of the nutritional characteristics, absence of inhibitors and possibility of supplementation with several compounds, this medium is recommended for isolation of wide variety of microorganisms, maintenance of stock cultures and for the preparation of vaccines. Tryptone Soya Agar conforms as per USP and is used in microbial limit test and antimicrobial preservative - effective test. It is included in the compendia of methods for the examination of water, wastewater and foods.

COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Pancreatic digest of casein	15.000
Glycerol	10.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000

PRINCIPLE
The combination of Pancreatic digest of casein and papaic digest of soyabean meal makes this media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance. Agar is a solidifying agent..

INSTRUCTION FOR USE
These plates can also be used as contact plates for environmental monitoring. Alternatively, either streak, inoculate or surface spread the test inoculum aseptically on the plate.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light amber color, clear to slightly opalescent gel.
Quantity of Medium	:	15-18 ml of medium in 55 mm plates.
pH (at 25°C)	:	7.3± 0.2
Dose of irradiation:	:	15-25 kGy
Sterility Check	:	Passes release criteria

INTERPRETATION

Cultural characteristics observed after inoculation of 50-100 CFU, on incubation at 30- 35 °C for 18 – 24 hours for bacteria and at 30- 35 °C and 20-25°C for ≤ 5 days for fungus**.** Recovery rate is considered 100% for bacteria growth on Soya Agar and fungus growth on Sabouraud Dextrose Agar.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Staphylococcus aureus	6538	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Escherichia coli	8739	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Pseudomonas aeruginosa	9027	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Clostridium sporogenes	11437	50-100	Luxuriant	>=70%	30-35˚C	18-48 hours
Bacillus subtilis	6633	50-100	Luxuriant	>=70%	30-35˚C	18-48 hours
Salmonella typhimurium	14028	50-100	Luxuriant	>=70%	30-35˚C	18-24 hours
Candida albicans	10231	50-100	Luxuriant	>=70%	20-25˚C	72-120 hours
Candida albicans	10231	50-100	Luxuriant	>=70%	20-25˚C	72-120 hours
Aspergillus brasiliensis	16404	50-100	Luxuriant	>=70%	20-25˚C	72-120 hours
Aspergillus brasiliensis	16404	50-100	Luxuriant	>=70%	20-25˚C	72-120 hours

PACKAGING:
Triple layered packing containing 5 No. of plates with one silica gel desiccant bag packed inside it.

STORAGE
On receipt, store the plates at 15–30 °C. Avoid freezing and overheating. Do not open until ready to use. Prepared plates stored in their original sleeve wrapping until just prior to use may be inoculated up to the expiration date and incubated for recommended incubation times. Allow the medium to warm to room temperature before inoculation.

DISPOSAL
After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. The United States Pharmacopoeia. 2009. Amended Chapters 61, 62 & 111, The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
3. Richardson (Ed)., 1985, Standard Methods for the Examination of Dairy Products, 15th ed., APHA, Washington, D.C.
4. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
5. Brummer, 1976, Appl. Environ. Microbiol., 32:80.
6. Erlandson A.L. Jr and Lawrence C.A. 1953, Inactivating medium for hexachlorophene (G-11) types of compounds and some substituted phenolic disinfectants, Science, 118, 274-276.
7. Favero (Chairm), 1967, Biological Contamination Control Committee, a state of the art report., Am. Assoc. for contamination control

Quantity

Lot / Batch Number


Temprature Unit


Manufacturer


Best Before

Certification of
Good Manufacturing Practices

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**

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