TMP 084GT - SOYABEAN CASEIN DIGEST AGAR PLATE WITH 0.5% POLYSORBATE 80 AND 0.07% SOYA LECITHIN (γ- IRRADIATED) (TRIPLE PACK)

INTENDED USE

For cultivation of wide variety of aerobes and fungi and for inactivation of penicillins, cephalosporins of first, second, third and fourth generation and penems.

PRODUCT SUMMARY AND EXPLANATION

Soyabean casein Digest Agar Plate w/Polysorbate 80 and Lecithin is recommended for the isolation of microorganisms from environmental surfaces and is used primarily to monitor microbial contamination, enumerate the number of microbial colonies growing on a variety of surfaces sanitized with quaternary ammonium compounds, phenolics and to assist in determining surface sanitation. The formulation of the basic medium (SCDA) is prepared according to the recommendations of the USP/EP/JP & supplemented with neutralizers.

The media are gamma irradiated in the packaging material to assure a reduction of the microbial load potentially present in the medium, on the dishes, and on the packaging materials.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzyme hydrolysate	15.000
Agar	15.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000
Lecithin	0.700
Polysorbate 80 (Tween 80)	5.000

PRINCIPLE

Medium contains Casein enzymic hydrolysate and papaic digest of soyabean meal which helps to provide nitrogenous compounds and other nutrients essential for microbial replication. Sodium chloride is added to maintain cellular osmotic equilibrium. Lecithin and polysorbate 80 are added to the formulation to neutralize germicidal or disinfectant residues. Neutralization of these residues reduces their inhibitory effect which ultimately results in lowering of microbial count. Quaternary ammonia compounds are neutralized by lecithin, while phenolic disinfectants and hexachlorophene are neutralized by polysorbate 80. Together, lecithin and polysorbate 80 neutralize ethanol. Agar is used as a solidifying agent.

INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate. Alternatively, these plates can also be used as settle plates for environmental monitoring.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Light amber color, clear to slightly opalescent gel.
Quantity of Medium	:	30 ±2 ml of medium in 90 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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Bacillus subtilis	6633	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Streptococcus pneumoniae	6305	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Staphylococcus aureus	25923	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Micrococcus luteus	9341	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Staphylococcus aureus	6538	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Escherichia coli	25922	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Escherichia coli	8739	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Pseudomonas aeruginosa	27853	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Pseudomonas aeruginosa	9027	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Salmonella typhimurium	14028	50-100	Luxuriant	>=70%	30-35˚C	24 hours
Candida albicans	10231	50-100	Luxuriant	>=70%	30-35˚C	24-48 hours
Candida albicans	10231	50-100	Luxuriant	>=70%	20-25˚C	48-72 hours
Aspergillus brasiliensis	16404	50-100	Luxuriant	>=70%	30-35˚C	48-72 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.
Product Deterioration: Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

DISPOSAL

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

REFERENCES

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11. ISO 11137-2:2013. Sterilization of health care products -- Radiation -- Part 2: Establishing the sterilization dose.

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

***For Lab Use Only**

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