

## TSP 071GT - SOYABEAN CASEIN DIGEST AGAR PLATE W/ b - LACTAMASE MIXTURE (g - irradiated) (Triple Pack)

### INTENDED USE

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

### PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Agar with beta-lactamase is used in plates for the detection and enumeration of microorganisms present on surfaces of sanitary importance and also in environmental monitoring of clean room for facilities where production of  $\beta$ -lactam group of antibiotics is carried out.

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. Gamma- irradiation of the product is indicated by an orange to red color of the irradiation indicator stripe on the inner label.

### COMPOSITION

Ingredients	Gms / Ltr
Casein enzyme hydrolysate	15.000
Agar	15.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000
Beta-lactamase mixture	500.000 IU

### PRINCIPLE

Medium contains Casein enzymic hydrolysate and papaic digest of soybean meal which provide nitrogenous compounds and other nutrients essential for microbial replication. Sodium chloride is added to maintain cellular osmotic equilibrium. Addition of beta-lactamase mixture enables the growth of resistance strains present in the environment of clean room by inactivating the beta-lactam antibiotics. 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	:	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 incubation .

### Growth Promotion Test

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Streptococcus pneumonia</i>	6305	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant	>=70%	30-35°C	18-24 hours
<i>Candida albicans</i>	10231	50-100	Luxuriant	>=70%	20-25 °C	<=5 days
<i>Aspergillus brasiliensis</i>	16404	50-100	Luxuriant	>=70%	20-25 °C	<=5 days

### Cultural Response

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<b><i>Escherichia coli</i></b>	25922	50-100				
w/o antibiotic			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Cephalothin			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Cefotaxime			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Ceftazidime			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Imipenem			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Ertapenem			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Meropenem			Luxuriant	>=70%	30-35°C	18-24 hours
<b><i>Staphylococcus aureus</i></b>	25923	50-100				
w/o antibiotic			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Penicillin			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Cephalothin			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Cefotaxime			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Ceftazidime			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Imipenem			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Ertapenem			Luxuriant	>=70%	30-35°C	18-24 hours
w/ Meropenem		Luxuriant	>=70%	30-35°C	18-24 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

1. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.
  2. Richardson (Ed)., 1985, Standard Methods for the Examination of Dairy Products, 15th ed., APHA, Washington, D.C.
  3. MacFaddin J.F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
  4. Brummer, 1976, Appl. Environ. Microbiol., 32:80.
  5. Favero (Chairm), 1967, Biological Contamination Control Committee, a state of the art report.,Am. Assoc. for contamination control.
- Murray PR, Baron, Pfaller, and Tenenbaum, Tenenbaum (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.



Quantity



Lot / Batch Number



Temperature Unit



Manufacturer



Best Before



Certification of  
Good Manufacturing Practices



Catalogue No.



Authorized Representative



MedNet GmbH  
Barkstrasse 10,  
48163 Münster, Germany



European Conformity



QR  
Code



Consults Instructions for use :



For In Vitro Diagnostic Use

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

**\*For Lab Use Only**

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