

## TMS 011- SOYA CASEIN DIGEST AGAR SLANT

### INTENDED USE

General purpose medium used for enrichment, isolation of fastidious microorganisms and also for sterility testing.

### PRODUCT SUMMARY AND EXPLANATION

Soyabean Casein Digest Agar is a widely used medium, which supports the growth of wide variety of organisms even that of fastidious ones such as *Neisseria*, *Listeria*, and *Brucella* etc. The medium with addition of blood provides perfectly defined haemolysis zones, while preventing the lysis of erythrocytes due to its sodium chloride content. It has been frequently used in the health industry to produce antigens, toxins etc. It's simple and inhibitor-free composition makes it suitable for the detection of antimicrobial agents in the food and other products. Tryptone Soya Agar is recommended by various pharmacopoeias as sterility testing medium.

### COMPOSITION

Ingredients	Gms / Ltr
Pancreatic digest of casein	15.000
Agar	15.000
Soya peptone	5.000
Sodium chloride	5.000

### PRINCIPLE

The combination of pancreatic digest of casein and soya peptone makes this media nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Sodium chloride maintains the osmotic balance.

### INSTRUCTION FOR USE

Inoculate the bacterial culture with an inoculating needle by streaking the slants.

### QUALITY CONTROL SPECIFICATIONS

<b>Appearance</b>	:	Light yellow coloured clear to slightly opalescent gel forms in tubes as slants
<b>Quantity of Medium</b>	:	8 ml of medium in glass tube.
<b>pH ( at 25°C)</b>	:	7.4±0.2

### INTERPRETATION

Cultural characteristics was observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Time
<i>Bacillus subtilis</i>	6633	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Staphylococcus aureus</i>	25923	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Staphylococcus aureus</i>	6538	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Escherichia coli</i>	25922	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Escherichia coli</i>	8739	50-100	good - luxuriant	30-35°C	18-24 hours



<i>Escherichia coli</i>	11775	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	9027	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	10145	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Micrococcus luteus</i>	9341	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Streptococcus pneumoniae</i>	6305	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Salmonella typhimurium</i>	14028	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Enterococcus faecalis</i>	29212	50-100	good - luxuriant	30-35°C	18-24 hours
<i>Candida albicans</i>	10231	50-100	good - luxuriant	30-35°C	≤ 5days
<i>Candida albicans</i>	2091	50-100	good - luxuriant	30-35°C	≤ 5days
<i>Aspergillus brasiliensis</i>	16404	50-100	good - luxuriant	30-35°C	≤ 5days
<i>Clostridium perfringenes</i>	13124	50-100	good - luxuriant	30-35°C	≤ 5days

**PACKAGING:**

Kit of 10 Ready-To-Use Slants containing 8 ml medium in each glass tube.

**STORAGE**

On receipt, store tubes in the dark at 2 – 8°C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Tubed media stored as labeled until just prior to use may be inoculated up to the expiration date and incubated for the recommended incubation times. Allow the medium to warm to room temperature before inoculation.

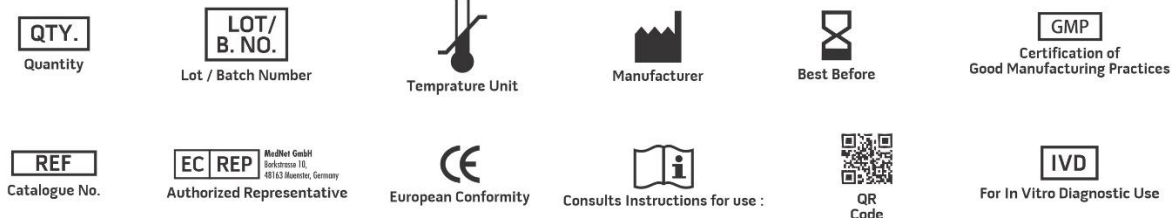
**Product Deterioration:** Do not use tubes if they show evidence of microbial contamination, discoloration, drying or other signs of deterioration.

**DISPOSAL**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

**REFERENCES**

1. The United States Pharmacopoeia , 2018, The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. Indian Pharmacopoeia, 2018, Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.



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

**\*For Lab Use Only**

**Revision: 28<sup>th</sup> Nov. 2019**

