



**SOYA CASEIN DIGEST AGAR (TRYPTONE SOYA AGAR) (CASO AGAR)  
(as per USP/EP/BP/JP) (VEG.) TMHV 103**

**INTENDED USE**

For the cultivation of various microorganisms and sterility testing of moulds and bacteria

**COMPOSITION**

<b>Ingredients</b>	<b>Gms/Ltr</b>
Agar	15.000
Veg. hydrolysate	15.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000

**PRODUCT SUMMARY AND EXPLANATION**

Soy Casein Digest Agar can be used as a general purpose medium used for multiple applications e.g. as a blood culture medium, as maintenance medium for culture collections (including maintenance of stock cultures), for testing bacterial contaminants and isolating fastidious organisms on enrichment with blood. It serves as a nutritive base to which variety of supplements can be added. On supplementation with blood it can be also used to determine haemolytic bacteria. This medium can also be used for sensitivity testing by tube dilution method of antimicrobial agents, plate counting, against animal based Soyabean Casein Digest Agar. This medium is employed for cultivation and isolation of fastidious and non-fastidious microorganisms.

The medium is also used in validation of sterility checking procedure in accordance with the microbial limit testing harmonized methodology of USP/EP/BP/JP/IP. This medium is used in microbial limit test and antimicrobial preservative- effective test.

**PRINCIPLE**

Combination of Veg. hydrolysate and Papaic digest of soybean 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 the solidifying agent.

**INSTRUCTION FOR USE**

1. Dissolve 40g in 1000ml distilled water.
2. Gently heat to boil with gentle swirling and dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.
4. Cool the medium at 45-50°C. Add 5% defibrinated sheep blood if required.
5. Gently shake to avoid bubbles and pour into sterile Petri plates as desired.



**QUALITY CONTROL SPECIFICATIONS**

**Appearance of Powder:** Cream to yellow homogeneous free flowing powder

**Appearance of prepared medium:**

**Basal medium:** Light yellow coloured clear to slightly opalescent gel

**With the addition of blood:** Cherry red colour, opaque gel

**pH (at 25°C):** 7. 3± 0.2

**INTERPRETATION:**

Culture characteristics observed after inoculating 50-100 CFU for specified incubation periods.

Test strains	ATCC	Inoculum (CFU)	Growth	Standard recovery (%)
<b>Incubation at 30 - 35°C for 18 - 24 hours</b>				
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant	≥ 70%
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	≥ 70%
<i>Escherichia coli</i>	8739	50-100	Luxuriant	≥ 70%
<i>Escherichia coli</i>	25922	50-100	Luxuriant	≥ 70%
<i>Pseudomonas aeruginosa</i>	9027	50-100	Luxuriant	≥ 70%
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	≥ 70%
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	≥ 70%
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	≥ 70%
<i>Klebsiella pneumoniae</i>	13813	50-100	Luxuriant	≥ 70%
<i>Enterococcus faecalis</i>	29212	50-100	Luxuriant	≥ 70%
<b>Incubation at 30 - 35°C for 18 - 48 hours</b>				
<i>Streptococcus pneumoniae</i>	6305	50-100	Luxuriant	≥ 70%
<i>Micrococcus luteus</i>	9341	50-100	Luxuriant	≥ 70%
<i>Clostridium sporogenes</i>	19404	50-100	Luxuriant	≥ 70%
<b>Incubation at 20-25°C up to 5 days</b>				
<i>Candida albicans</i>	10231	50-100	Luxuriant	≥ 70%
<i>Aspergillus brasiliensis</i>	16404	50-100	Good	Good zone diameter



Culture characteristics observed after incubation period of 18 - 48 hours at 35 ± 2°C, with added 5% sheep blood.

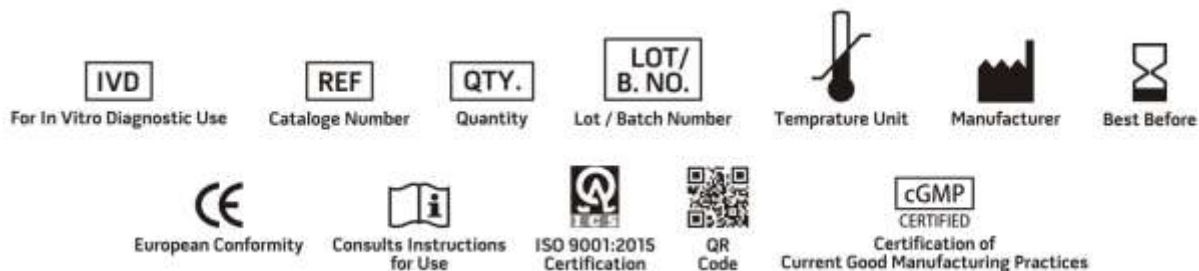
Test strains	ATCC	Inoculum (CFU)	Growth	Standard recovery (%)	Haemolysis
<i>Staphylococcus aureus</i>	6538	50-100	Luxuriant	≥ 70%	Beta
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	≥ 70%	Beta
<i>Streptococcus pneumoniae</i>	6305	50-100	Luxuriant	≥ 70%	Alpha

### STORAGE & STABILITY

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

### REFERENCES

1. MacFaddin 1985, Media for isolation-cultivation-identification-maintenance medical bacteria Vol, I, Williams, & Wilkins, Baltimore, MD.
2. Forbes BA, Sahm DF, Weissfeld AS, 2002, Bailey and Scott's Diagnostic Microbiology, 11th ed., The C.V. Mosby Co., St. Louis.
3. British Pharmacopoeia, 2016, The Stationery office British Pharmacopoeia
4. European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.
5. Japanese Pharmacopoeia, 2016.
6. Indian Pharmacopoeia, 2018, Govt. of India, the controller of Publication, Delhi, India.
7. The United States Pharmacopoeia, 2019, The United States Pharmacopoeial Convention. Rockville, MD





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## PRODUCT DATA SHEET

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