SOYA CASEIN DIGEST AGAR (TRYPTONE SOYA AGAR) (CASO AGAR) (as per USP/EP/BP/JP/IP) TMH 103

INTENDED USE

For the cultivation of various microorganisms from pharmaceuticals products in accordance with harmonized method.

COMPOSITION

Ingredients	Gms/Ltr
Agar	15.000
Pancreatic digest of Casein	15.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000

PRODUCT SUMMARY AND EXPLANATION

Various pharmacopoeias recommend Soybean Casein Digest Agar as sterility testing medium. It 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. Gunn et al used this medium for the growth of fastidious organisms and study of haemolytic reaction after addition of 5% v/v blood.

PRINCIPLE

Combination of Pancreatic digest of Casein 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 40.00 grams in 1000 ml distilled water.
2. Gently heat to boiling with gentle swirling and dissolve the medium completely.
3. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
4. Cool to 45-50°C.
5. Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow colour, homogeneous free flowing powder

Appearance of prepared medium: Light yellow colour, clear to slightly opalescent gel

pH (at 25°C): 7.3±0.2

INTERPRETATION:

Cultural characteristics observed after inoculating 50—100 CFU and incubating the plates.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Standard Recovery
Incubation at 30-35°C for 18-24 hours				
Staphylococcus aureus	6538	50 – 100	Luxuriant	≥ 70%
Staphylococcus aureus	25923	50 - 100	Luxuriant	≥ 70%
Escherichia coli	8739	50 – 100	Luxuriant	≥ 70%
Escherichia coli	25922	50 - 100	Luxuriant	≥ 70%
Pseudomonas aeruginosa	9027	50 – 100	Luxuriant	≥ 70%
Pseudomonas aeruginosa	27853	50 - 100	Luxuriant	≥ 70%
Bacillus subtilis	6633	50 – 100	Luxuriant	≥ 70%
Salmonella typhimurium	14028	50 - 100	Luxuriant	≥ 70%
Klebsiella pneumoniae	13883	50 – 100	Luxuriant	≥ 70%
Enterococcus faecalis	29212	50 - 100	Luxuriant	≥ 70%
Incubation at 30-35°C for 18-48 hours				
Streptococcus pneumoniae	6305	50 – 100	Luxuriant	≥ 70%
Micrococcus luteus	9341	50 - 100	Luxuriant	≥ 70%
**Clostridium sporogenes*	19404	50 – 100	Luxuriant	≥ 70%
Incubation at 20-25°C for up to 5 days				
Candida albicans	10231	50 - 100	Luxuriant	≥ 70%
#*Aspergillus brasiliensis*	16404	50-100	Good	50-70%

#Formerly known as *Aspergillus niger* , * Anaerobic incubation

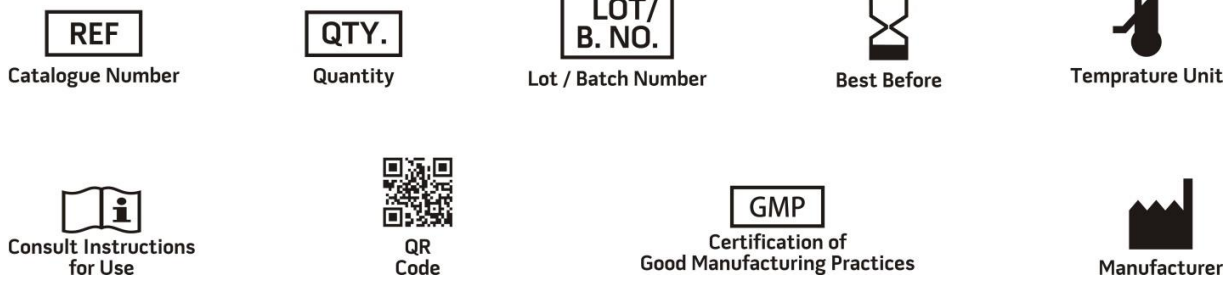
STORAGE & STABILITY

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. British Pharmacopoeia, 2016, The Stationery Office British Pharmacopoeia
2. European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.
3. Japanese Pharmacopoeia, 2016.
4. Indian Pharmacopoeia, 2018, Govt. of India, the controller of Publication, Delhi, India.
5. The United States Pharmacopoeia, 2019, The United States Pharmacopoeial Convention. Rockville, MD



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

***For professional use only.**
Revision: 20th Sept., 2019