

TMP 019 - SHEEP BLOOD SOYABEAN CASEIN DIGEST AGAR PLATE

INTENDED USE

For cultivation of wide variety of microorganisms and studying haemolytic reactions.

PRODUCT SUMMARY AND EXPLANATION

Sheep Blood Soyabean Casein Digest agar is suitable for the cultivation of fastidious aerobic and anaerobic bacteria, the latter of which can be grown either in deep cultures or by incubation under anaerobic conditions. The absence of carbohydrates and reducing sugars in this medium permits the demonstration of hemolytic reactions which is an important differentiating characteristic for bacteria, especially *Streptococcus* species. TSA with 5% sheep blood is also suitable for performing CAMP test. Group B Streptococci produce a protein like compound called CAMP factor which acts synergistically with beta toxin, produced by some strains of *Staphylococcus aureus*. The reaction occurs when a streak of beta-lysin producing *S. aureus* is inoculated perpendicular to a streak of group B *Streptococcus* resulting in an area of complete lysis in the shape of an arrowhead or crescent.

COMPOSITION

Ingredients	Gms / Ltr
Agar	15.000
Pancreatic digest of Casein	15.000
Papaic digest of Soybean	5.000
Sodium chloride	5.000
Sheep Blood	50.000ml

PRINCIPLE

The combination of casein and soy peptones provides nitrogen, amino acids and peptides for bacterial growth. Sodium chloride supplies essential electrolytes which maintain osmotic equilibrium. Sterile defibrinated sheep blood used to enrich the medium produces the hemolysis characteristics of different bacteria, such as Streptococci, *Listeria* spp., hemolytic *Staphylococcus* spp., *Escherichia coli* and *Pseudomonas* spp.

INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate.

QUALITY CONTROL SPECIFICATIONS

Appearance	:	Red colour, opaque gel
Quantity of Medium	:	25ml of medium in 90mm plates.
pH (at 25°C)	:	7.3 ± 0.2
Sterility Check	:	Passes release criteria

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Haemolysis	Incubation Temperature	Incubation Period
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	>=70%	Beta	30-35°C	18-24 hours



<i>Staphylococcus aureus</i>	6538P	50-100	Luxuriant	>=70%	Beta	30-35°C	18-24 hours
<i>Streptococcus pneumoniae</i>	6305	50-100	Luxuriant	>=70%	Alpha	30-35°C	18-24 hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	9027	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Bacillus subtilis</i>	6633	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Klebsiella pneumoniae</i>	13813	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Enterococcus faecalis</i>	33186	50-100	Luxuriant	>=70%	Beta	30-35°C	18-24 hours
<i>Micrococcus luteus</i>	9341	50-100	Luxuriant	>=70%	None	30-35°C	18-24 hours
<i>Candida albicans</i>	10231	50-100	Luxuriant	>=70%	None	30-35°C	<= 5 days
* <i>Aspergillus brasiliensis</i>	16404	10-100	Good	50-70%	None	30-35°C	<= 5 days

*Formerly known as *Aspergillus niger*

PACKAGING:

Doubled layered packing containing 5 No. of plates with one silica gel desiccant bag packed inside it.

STORAGE

On receipt, store the plates at 2-8 °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. The United States Pharmacopoeia. 2009. Amended Chapters 61, 62 & 111, The United States Pharmacopoeial Convention Inc., Rockville, MD.
2. Directorate for the Quality of Medicines of the Council of Europe (EDQM). 2009. The European Pharmacopoeia, Amended Chapters 2.6.12, 2.6.13, 5.1.4, Council of Europe, 67075 Strasbourg Cedex, France.
3. Japanese Pharmacopoeia. 2008. Society of Japanese Pharmacopoeia. Amended Chapters 35.1, 35.2, The Minister of Health, Labor, and Welfare.
4. Indian Pharmacopoeia. 2010. Govt. of India, Ministry of Health and Family Welfare, New Delhi, India.



QTY.

Quantity

**LOT/
B. NO.**

Lot / Batch Number



Temperature Unit



Manufacturer



Best Before

GMP

Certification of
Good Manufacturing Practices

REF

Catalogue No.

EC REP

Authorized Representative

MedNet GmbH
Barkstrasse 10,
48163 Münster, Germany



European Conformity



QR
Code



Consults Instructions for use :

IVD

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**

Revision: 22nd March. 2019

