CM 22433 - SOYBEAN CASEIN DIGEST MEDIUM W/ LTHTh

INTENDED USE
For determining the efficiency of sanitization of containers, equipments, surfaces, water miscible cosmetics.

PRODUCT SUMMARY AND EXPLANATION
Soyabean Casein DigestMediumw/ LTHTh isused for the detection and enumeration of microorganisms for products of sanitary importance, water miscible cosmetics,Products containing antimicrobials or preservatives. The formulation of the basic medium (Soybean-Casein Digest Broth)is prepared according to the recommendations of the current European, Japanese and United States Pharmacopoeia.

COMPOSITION

Ingredients	Gms / Ltr
Casein enzymic hydrolysate	15.000
Papaic digest of soyabean meal	5.000
Sodium chloride	5.000
Polysorbate 80 (Tween 80)	5.000
Lecithin	0.700
Histidine	0.500
Sodium thiosulphate	0.500

PRINCIPLE
Caseinenzymic hydrolysate andpapaic digest of soyabean meal provide nitrogenous compounds and other nutrients essential for microbial replication. Lecithin, polysorbate 80 (Tween 80) and thiosulphate act as neutralizing agents reported to neutralize theactivityof antimicrobial agents. Lecithin and polysorbate 80 neutralizes quaternary ammonium compounds and parahydroxy benzoates. Sodium thiosulphate neutralizes mercurial, halogens, aldehydes etc. Histidine acts as a reducing agent.

INSTRUCTION FOR USE
InoculatethesampleandIncubate at specified temperature and time.

QUALITY CONTROL SPECIFICATIONS

Appearance of prepared medium	:	Light yellow to yellow coloured, clear solution
Quantity of Medium	:	10 ml of medium in tubes.
pH (at 25°C)	:	7.3 ± 0.2
Sterility Check	:	Passes release criteria

INTERPRETATION
Culturalcharacteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Growth with Disinfectant*	Incubation Temperature	Incubation Time
Escherichia coli	25922	50 - 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Escherichia coli	8739	50 - 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Staphylococcus aureus	25923	50 – 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Staphylococcus aureus	6538	50 – 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Pseudomonas aeruginosa	27853	50 – 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Bacillus subtilis	6633	50 - 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Salmonella typhimurium	14028	50 - 100	Luxuriant	Good-Luxuriant	35 ± 2°C	18 - 24 Hours
Candida albicans	10231	50 - 100	Luxuriant	Good-Luxuriant	20-25°C	≤ 5 days

* depends on concentration of quarternary ammonium compounds

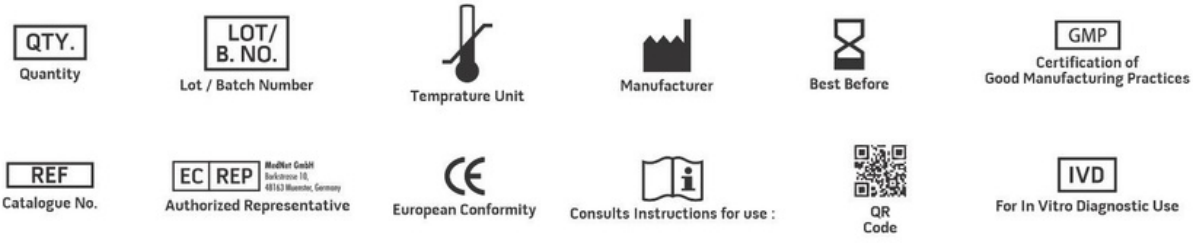
PACKAGING:
Pack of 25 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.
Pack of 50 Ready-To-Use Liquid Medium tubes containing 10 ml in each tube.

STORAGE
Onreceipt, store tubes in the dark at 10-25 °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.

DISPOSAL
Usermustensure 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. Brown, M.R.W. (1966): Turbidimetric method for the rapid evaluation of antimicrobial agents. Inactivation of preservatives by nonionic agent. – J. Soc. Cosm. Chem., 17; 185-195.
2. European Pharmacopoeia 8.0 (2014): 2.6.1. Sterility; 2.6.12. Microbial examination of non-sterile products (total viable aerobic count);
3. Japanese Pharmacopoeia 16th edition (2011): 4.05 Microbial Limit Test; 4.06 Sterility Test.
4. Russel, A.D., Ahonkhai, I. and Rogers, D.T. (1979) Microbiological applications of the inactivation of antibiotics and other antimicrobial agents. Journal of Applied Bacteriology 46:207-245.
5. United States Pharmacopoeia 38 NF 33 (2015): Sterility Tests; Microbiological Examination of Non-Sterile Products: Microbial Enumeration Tests.



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

*For Lab Use Only