

TM 2393 – TSB CAP4 W/TWEEN 80

INTENDED USE

For determining efficiency of sanitization of containers, equipment surfaces, water miscible cosmetics etc.

PRODUCT SUMMARY AND EXPLANATION

Tryptone Soya lecithin Broth with Tween 80 & Tamol is used for the detection and enumeration of microorganisms for products of sanitary importance, water miscible cosmetics and containing antimicrobials or preservatives.

COMPOSITION

Ingredients	Gms / Ltr
Part I	
Tryptone	17.000
Peptone	2.500
Soya peptone	3.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	2.500
Dextrose(Glucose)	2.500
Soya lecithin	5.000
Part II	
Tamol	7.500
Polysorbate 80 (Tween 80)	35.000

PRINCIPLE

Tryptone, soya peptone and peptone provides carbonaceous and nitrogenous compounds, long chain amino acids, vitamins and other essential growth nutrients for the microorganisms. Dextrose (Glucose) is the source of carbohydrate. Sodium chloride maintains the osmotic balance. Dipotassium hydrogen phosphate buffers the medium. Soya lecithin, polysorbate 80 (Tween 80) and tamol act as neutralizing agents that neutralizes the activity of antimicrobial agents. Lecithin and polysorbate 80 neutralizes quaternary ammonium compounds, parahydroxy benzoates and substituted phenolics.

INSTRUCTION FOR USE

- Suspend 37.5 grams of Part I in 800 ml purified / distilled water.
- Separately add 42.5 ml of Part II in 100 ml purified/ distilled water.
- Mix well and add to Part A solution. Make up the volume to 1000 ml. Heat if necessary to dissolve the medium completely.
- Mix well and dispense in tubes or flasks or as desired. Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Note: Medium may show haziness after sterilization but on cooling the medium becomes clear.

QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Part I: Cream to yellow homogeneous free flowing powder. Part II Yellow to amber viscous solution.
Appearance of prepared medium	: Light to medium amber coloured, clear to slightly opalescent solution
pH (at 25°C)	: 7.3±0.2



INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU)	Growth	Incubation Temperature	Incubation Period
<i>Staphylococcus aureus subsp. aureus</i>	6538	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Staphylococcus aureus subsp. aureus</i>	25923	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Escherichia coli</i>	8739	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Escherichia coli</i>	25922	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Pseudomonas aeruginosa</i>	9027	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Pseudomonas aeruginosa</i>	27853	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Bacillus subtilis subsp. spizizenii</i>	6633	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Micrococcus luteus</i>	9341	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Salmonella Typhimurium</i>	14028	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Streptococcus pneumoniae</i>	6305	50 -100	Luxuriant	30 -35 °C	18-24 Hours
<i>Candida albicans</i>	10231	10 -100	Luxuriant	20 -25 °C	<=5 Days



<i>Candida albicans</i>	2091	10 -100	Luxuriant	20 -25 °C	<=5 Days
<i>Aspergillus brasiliensis</i>	16404	10 -100	Luxuriant	20 -25 °C	<=5 Days
<i>Staphylococcus aureus subsp. aureus</i>	6538	50 -100	Luxuriant	20 -25 °C	<=3 Days
<i>Staphylococcus aureus subsp. aureus</i>	25923	50 -100	Luxuriant	20 -25 °C	<=3 Days
<i>Escherichia coli</i>	8739	50 -100	Luxuriant	20 -25 °C	<=3 Days
<i>Escherichia coli</i>	25922	50 -100	Luxuriant	20 -25 °C	<=3 Days
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PACKAGING:

In pack size of 500 gm bottles.



STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°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.

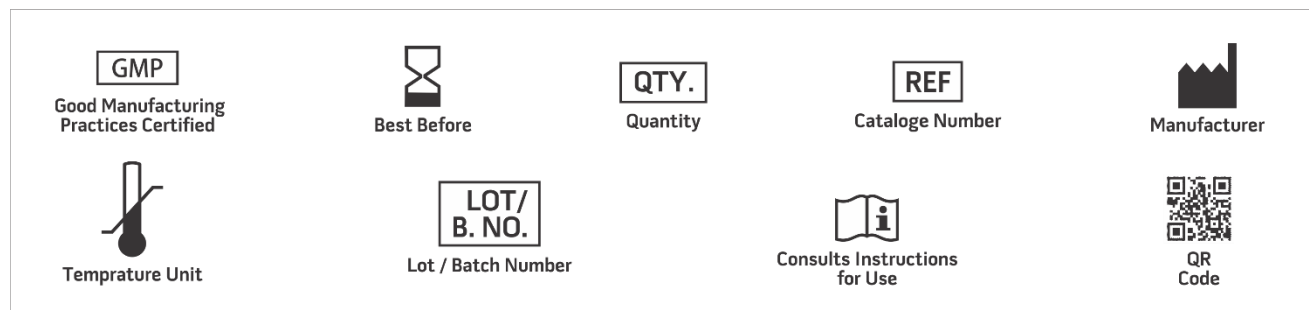
Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Murray PR, Baron, Pfaller, and Tenenbaum (Eds.), 2003, In Manual of Clinical Microbiology, 8th ed., ASM, Washington, D.C.
2. Hall and Hartnett, 1964, Public Health. Rep., 79:1021.



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

***For Lab Use Only**
Revision: 08 Nov., 2019