# TMP 030GT - SOYABEAN CASEIN DIGEST AGAR PLATE W/ 1% GLYCEROL, 0.5% LECITHIN & 2% Polysorbate 80 (g - irradiated) (Triple Pack)

## INTENDED USE

For determining the efficiency of sanitization of containers, equipment surfaces etc and for enumeration of organisms from water insoluble & fatty products containing antimicrobial or preservatives.

## PRODUCT SUMMARY AND EXPLANATION

SOYABEAN CASEIN DIGEST AGAR PLATE W/ 1% GLYCEROL, 0.5% LECITHIN & 2% Polysorbate 80 (g - irradiated) (Triple Pack) is used for the detection and enumeration of microorganisms for products of sanitary importance, water miscible cosmetics, and products containing antimicrobials or preservatives.

The media are gamma irradiated in the packaging material to assure a reduction of the microbial load potentially present in the medium, on the dishes, and on the packaging materials.

## COMPOSITION

| Ingredients | Gms / Ltr |
|---|---|
| **Tryptone** | 15.000 |
| **Soya peptone** | 5.000 |
| **Sodium chloride** | 5.000 |
| **Lecithin** | 5.000 |
| **Polysorbate 80 (Tween 80)** | 20.000 |
| **Glycerol** | 10.000 |
| **Agar** | 15.000 |

## PRINCIPLE

Tryptone and Soya peptone provide nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and other nutrients essential for microbial replication. Lecithin to inactivate residual disinfectants from where the sample is collected. Lecithin neutralizes quaternary ammonium compounds. Polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, formalin and with lecithin ethanol . Glycerol helps in retention of moisture and serves as carbon source.

## INSTRUCTION FOR USE

Either streak, inoculate or surface spread the test inoculum aseptically on the plate. Alternatively, these plates can also be used as settle plates for environmental monitoring.

## QUALITY CONTROL SPECIFICATIONS

| | | |
|---|---|---|
| **Appearance** | : | Light yellow coloured medium. |
| **Quantity of Medium** | : | 30 ±2 ml of medium in 90 mm plates. |
| **pH (at 25°C)** | : | 7.3± 0.2 |
| **Dose of irradiation:** | : | 10.00- 25.00 |
| **Sterility Check** | : | Passes release criteria |

## INTERPRETATION

Cultural characteristics observed after incubation.

| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Recovery | Incubation Temperature | Incubation Period |
|---|---|---|---|---|---|---|
| *Staphylococcus aureus* | 25923 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Staphylococcus aureus* | 6538 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Pseudomonas aeruginosa* | 27853 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Escherichia coli* | 25922 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Escherichia coli* | 8739 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Pseudomonas aeruginosa* | 9027 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Candida albicans* | 10231 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |
| *Aspergillus brasiliensis* | 16404 | 50-100 | Luxuriant | >=70 % | 30- 35 °C | 18 – 24 hours |

## PACKAGING:

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

## STORAGE

On receipt, store the plates at 20–30 °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.

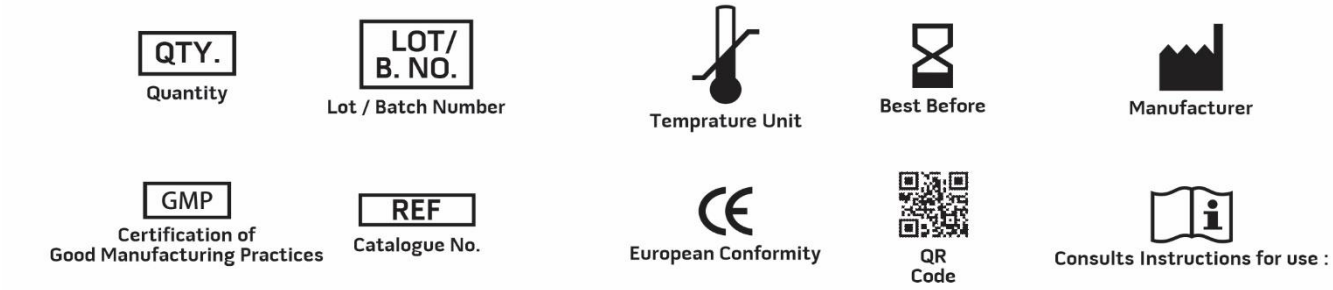
**Product Deterioration:** Do not use plates if they show evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

## DISPOSAL

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

## REFERENCES

1. Hall and Hartnett, 1964, Public Hlth. Rep., 79:1021.




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

***For Lab Use Only**

**Revision: 1st March 2024.**