

BD BBL™ Prepared Plated Microbiological Medium for Environmental Monitoring

Trypticase™ Soy Agar with Lecithin and Polysorbate 80 (Double Bag)

8808271JAA
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INTENDED USE

Trypticase™ Soy Agar with Lecithin and Polysorbate 80 is recommended for the detection and enumeration of microorganisms present on surfaces of sanitary importance.

SUMMARY AND EXPLANATION

This medium may be employed to establish and monitor cleaning techniques and schedules.¹⁻⁴ Collection of “samples” from identical areas before and after treatment with disinfectant yields data useful in evaluating cleaning procedures in environmental sanitation.

PRINCIPLES OF THE PROCEDURE

Casein and soy peptones are sources of nutrients required for the replication of microorganisms. Sodium chloride maintains osmotic equilibrium. Lecithin and polysorbate 80, two commonly used neutralizers, are reported to inactivate residual disinfectants when the sample is being collected.⁵⁻⁸ Lecithin is incorporated to neutralize quaternary ammonium compounds and polysorbate 80 is used to neutralize substituted phenolic disinfectants.⁵⁻⁸

REAGENTS

Formula:

Trypticase™ Soy Agar with Lecithin and Polysorbate 80

Approximate Formula* Per Liter Purified Water

Pancreatic Digest of Casein.....	15.0 g
Papaic Digest of Soybean Meal	5.0 g
Sodium Chloride	5.0 g
Lecithin.....	0.7 g
Polysorbate 80	5.0 g
Agar.....	15.0 g

*Adjusted and/or supplemented as required to meet performance criteria.

Warnings and Precautions: For Laboratory Use

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation.

Storage Instructions: On receipt, store plates in the dark at 2 – 8°C. Avoid freezing and overheating. Do not open until ready to use. Minimize exposure to light. Prepared plates stored in their original sleeve wrapping at 2 – 8°C 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.

PROCEDURE

Material Provided: Trypticase Soy Agar with Lecithin and Polysorbate 80

Materials Required But Not Provided: Ancillary culture media, reagents, quality control organisms and laboratory equipment as required.

Test Procedure: Observe aseptic techniques and established precautions against microbiological hazards throughout all procedures. The agar surface should be smooth and moist, but without excessive moisture.

1. If sample is being cultured from a swab, roll the swab directly on the medium surface.
2. Incubate all plates at 35 – 37°C for 48 h, and 25°C for 7 days or as required.
3. When incubation has been completed, count the colonies.

User Quality Control:

1. Examine plates for signs of deterioration as described under “Product Deterioration.”
2. Check performance by inoculating a representative sample of plates with pure cultures of stable control organisms that give known, desired reactions. The following test strains are recommended:

TEST STRAIN	EXPECTED RESULTS
<i>Pseudomonas aeruginosa</i> ATCC™ 10145	Growth
<i>Staphylococcus aureus</i> ATCC 25923	Growth

RESULTS

Because interpretations are relative, each laboratory should establish its own values for what constitutes a clean area.

Count all developing colonies. Spreading colonies should be counted as one but care should be taken to observe other distinct colonies intermingled in the growth around the plate periphery or along a hair line. These should also be counted as one colony, as should bi-colored colonies and halo type spreaders.

LIMITATIONS OF THE PROCEDURE

This prepared plated medium is intended for the enumeration of microorganisms on surfaces of sanitary importance. For identification, the organisms, must be in pure culture. Biochemical tests may be performed for complete identification. Appropriate texts should be consulted for further information.⁹⁻¹¹

AVAILABILITY

Cat. No.	Description
221943	BBL™ Trypticase™ Soy Agar with Lecithin and Polysorbate 80 , Ctn. of 100 plates.

REFERENCES

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