

Product Information

OxyDish™

Catalog Number **SAE0060**

Storage Temperature -20 °C

Product Description

The OxyDish™ culture dish is specially designed for studies that require anaerobiosis (anoxic conditions). This dish is intended for use with the Oxyrase® Enzyme System for Agar (OA; Product No. SAE0058), after OA has been added to a poured agar medium. It can be used with virtually any type of media. The OxyDish culture dish reduces and simplifies the number of manipulations required to work with anaerobes.

The OxyDish culture dish is very similar to a standard culture dish, but with several differences:

- The base is the same size as a regular petri dish, but has an isomark that is useful for automation purposes.
- The lid contains a sealing ring to set over the dish base after it has been filled. When the base is filled with solidified agar and the dish is inverted, the agar surface will come to rest on this sealing ring.

The dish lid is specially designed with an inner ring that forms a tight seal against the medium surface. This seal can be easily broken and reformed, to create an anaerobic environment each time.¹ Each single-use dish is lightweight and designed to be stacked without crushing the medium in the lower dishes of the stack.

Procedure

Note: OA is a filter-sterilized product and must be handled aseptically to maintain sterility.

Surface plating [1:10 dilution]

1. Prepare 90% of the total desired volume of medium. Autoclave the medium.
2. Bring the sterile medium to 45–48 °C. Add OA by pouring/pipetting OA down the side of the flask, at a final ratio of 1:10 OA:medium.
3. Gently swirl the OA into the medium, taking care to avoid foaming. Begin distributing the OA medium mixture into each OxyDish culture dish.
4. Place an OxyDish culture dish in an upright position on a level surface. Remove the dish top and place it to the side.

5. Deliver 22–24 mL of liquid OA/medium mixture into each dish base. (More volume may be added to plates for longer storage times.)
6. When distributing the medium, avoid creating bubbles/foam in the agar, which may interfere with the dish seal. Draw bubbles up with a pipette, if needed.
7. Allow agar to dry/solidify completely before replacing the dish top over the base. It is very important that the plate surface solidifies evenly, to form an effective seal. Plates are dried, so water does not condense within the dish during incubation or storage.
 - a. Place the open plate in a laminar flow hood to dry (<15 minutes).
 - b. Remove and invert lid from plate base. Invert base, and place base over lid at an angle in a clean incubator at 40–45 °C to dry (≤45 minutes).
8. Once dry, slide the base onto the inverted lid to close the plate and form a seal. Do not press or squeeze the lid and base together when closing the plate, as it is best to handle the plate from the sides.
9. Depending on the medium type and its intended use, store poured plates in a closed position for up to 14 days at 2–8 °C.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

References

1. Spangler, S.K., *et al.*, *J. Clin. Microbiol.*, **33**(5), 1366-1367 (1995).

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