MicroFast® Environmental Listeria Count Plate

Part #: MF1008

Introduction

MicroFast® Environmental Listeria Count Plate (EL) is a sample-ready-culture medium system that contains improved media, a cold-water-soluble gelling agent, and an indicator that facilitates colony enumeration. It is intended for the Environmental Listeria test in the environment.

WARNINGS & PRECAUTIONS

- The user should read, understand, and follow all safety information in the instructions before use.
- The MicroFast Count Plate should be disposed following procedures for infectious or potentially infectious products. User should wear appropriate personal protective equipment, including, but not limited to, protective disposable gloves, laboratory coats, and eye protection when handling samples and kit reagents, Wash hands thoroughly after handling specimens and reagents. It is the responsibility of each laboratory to handle waste and effluents produced according to their type and degree of hazardousness and to treat and dispose of them (or have them treated and disposed) in accordance with local, state, and federal regulations. Strict compliance with BSL-2 practices should be followed.
- Follow all product storage guidelines included in the insert. Do not use after the expiration date.
- MicroFast Count Plate testing should be done in a professionally equipped laboratory under the supervision of a skilled microbiologist. The user must train its staff on the current testing methods.
- MicroFast Count Plates have not been reported for application in industries other than food and environmental samples. Use within the suggested scope.
- Counting results of MicroFast Count Plates may not be the same as agar.
- MicroFast Count Plate have not been evaluated with all possible food products, food processes, testing protocols or with all possible microorganism strains.
- As a general precaution, clean the workstations with the disinfectant of choice (e.g., sodium hypochlorite solution, phenol solution, quaternary ammonium solution) before and after, in addition to having work areas separated for the following: media preparation, sample preparation, and indicator organism enumeration. Gloves and other personal protective equipment should always be used.
- Count plate may contain microorganisms that may be a potential biohazard. Follow current industry standards for disposal.
- Keep the count plate away from ultraviolet, direct sunlight and fluorescent lamp.
- Do not use the polluted or damped count plate.
- If the pH of the test sample is too high or too low, it will affect the accuracy of the test results.
- When uncovering the film, do not touch the culture area of the medium.
- If there are too many colonies, the detection of positive strains might be affected.
- The count plate may show a few needle-like black spots, which is normal and does not affect the interpretation of the target strain.
- If the sample is viscous, diffusion can be aided manually.
- When pipetting samples, do not touch culture area.

Limitation of Warranties

Accurate results depend on the proper use of the kit by following the instructions for use carefully. If the kit fails to perform according to specification, please contact Scigiene.

Limitation of Scigiene Liability

Scigiene will not be liable for any loss or damages, whether direct, indirect, special, incidental or consequential damages, including but not limited to lost profits. In no event shall Scigiene's liability under any legal theory exceed the purchase price of the product alleged to be defective.

User Responsibility

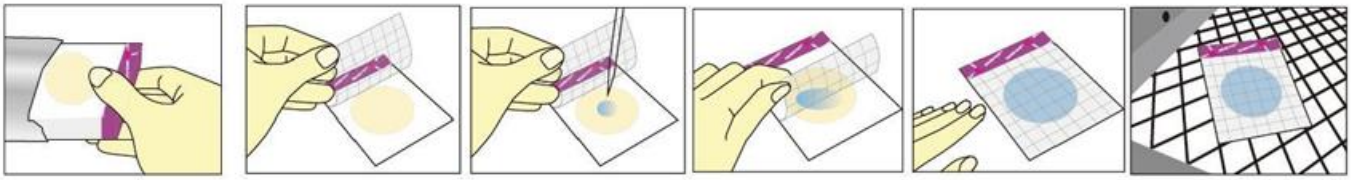
Users are responsible for becoming acquainted with product instructions and information. For further information, please contact Scigiene.
When choosing a test method, please note that external factors such as sampling methods, testing protocols, sample preparation, handling, and laboratory technique can all have an impact on the results.

When selecting a test method or product, it is the user's duty to assess a sufficient number of samples with the proper matrices and microbiological challenges to ensure that the chosen test methos meets the user's criteria. It is also the user's obligation to ensure that any test methods and results fulfill the criteria of its customers/suppliers.
Results acquired from the use of any Scigiene product, like any other method, cannot guarantee the quality of the tested matrices or processes.

Sample Preparation

1. Use a swab, sponge, or other sampling equipment to collect environmental samples (the liquid to the wet sampling device can be selected as the corresponding neutralizer according to the disinfection reagent used, the volume of the liquid should not exceed 10mL).
2. The appropriate amount of test samples will be mixed with buffer solution according to the standard requirements and get the sample solution (1:10).
3. Transfer 1mL of homogenized solution (from step 1) to a tube containing 9mL of diluting buffer, then get the 1:100 sample solution. And so on for the 1:1000.
4. Choose 2 or 3 diluted sample solutions with a suitable concentration gradient for the inoculation test (As for liquid samples, the initial sample can be used for inoculation).

Operation Procedure



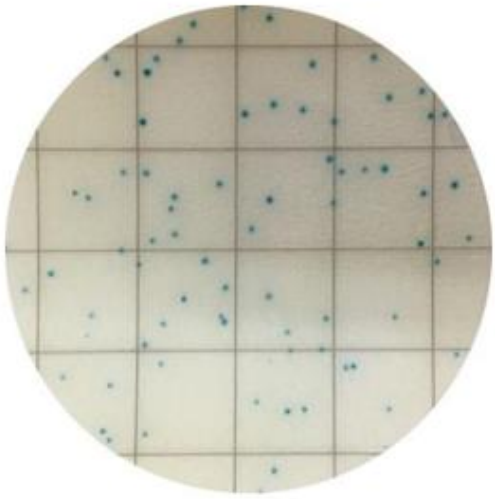
1. Open the aluminum foil bag and take out the plates.
2. Put the plate on a horizontal worktable; lift the top film by thumbs and forefingers and the other fingers press on the top label of the plate (Don't touch the culture area).
3. Pipette 1mL of sample solution and drop it to the center of the plate vertically.
4. Cover the top film slowly and the solution will spread automatically. It is not necessary to press the film (Don't move the plate before the solution spreads completely. It takes about 1 min).

Incubation

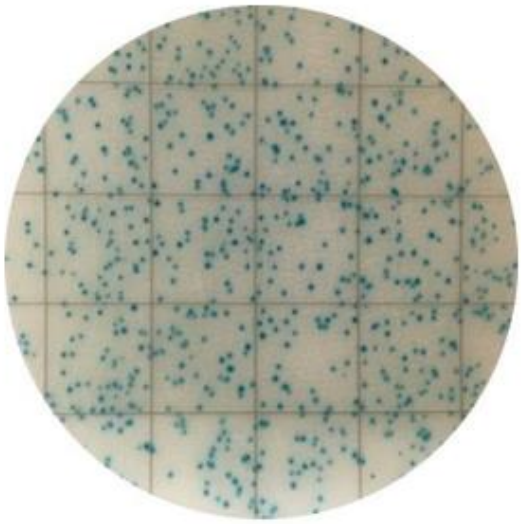
Incubate MicroFast plates in a horizontal position with the film upwards in stacks of no more than 20. Culture at 36±1℃ for 18-24h.

Results

After incubation, Environmental Listeria will show blue-green colonies after growing on the count plate. Count visually with a standard colony counter or other illuminated magnifiers. The counting range is 15-150 CFU.



Environmental Listeria



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Storage

1. When unopened, the best storage temperature is 2-8 ℃, and it is used up within the shelf life.
2. In a high-humidity environment, please restore the test piece to room temperature before use.
3. After unsealing, it is necessary to fold the aluminum foil bag twice, then stick it with adhesive tape or seal it with a sealing clip, store it in the dark at 2-8 ℃, and use it up within one month.
4. When transporting or short-term storage, just leave the count plate at room temperature.

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