

The *Listeria monocytogenes* Count Plate User Manual

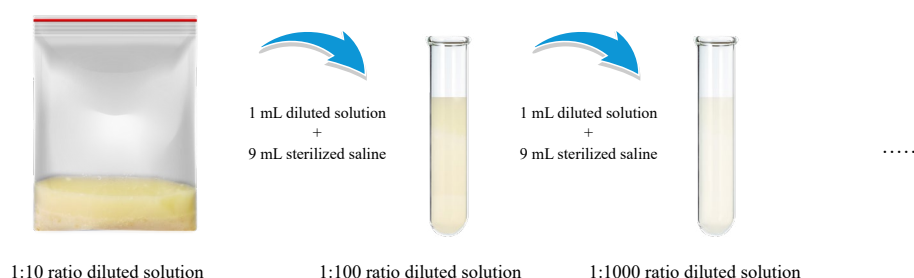
1. Product Description and Applications

Listeria monocytogenes Count Plate contains nutrient medium, water absorbing gelling agent, and enzymatic chromogenic reagent, etc. Compared with the traditional methods, a lot of auxiliary work (medium preparation, disinfection, cleaning of culture utensils, and so on) are no longer in need. It is intended to rapidly detect the *Listeria monocytogenes* in food, water samples and the surface hygiene of environmental samples. This product is very suitable for food manufacturers and institute of food hygiene inspection.

2. Procedure & Steps

2.1 Sample Pre-treatment

Take 25 g (or 25 mL) of sample and place it in a sampling tank or homogenization bag containing 225 mL of sterilized physiological saline (or sterilized phosphate buffer diluent) to prepare a 1:10 sample homogenization solution. Depending on the degree of sample contamination and testing needs, a further 10 fold increase in sample dilution solution can be prepared.



2.2 Inoculation

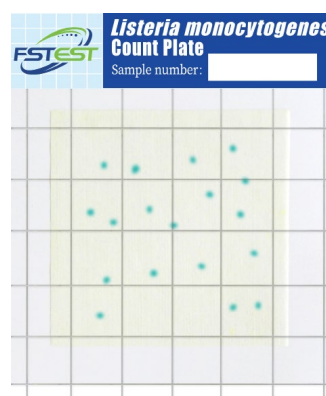
Place the *Listeria monocytogenes* test piece on a flat experimental table, uncover the upper layer membrane, use a sterile straw to suck 1 mL of sample solution and evenly drip it onto the paper piece. Then, slowly cover the upper layer membrane and let it stand for 10 seconds to fully absorb the sample solution. Inoculate two test pieces at each dilution as a duplicate.

2.3 Culture

Fold the test pieces together and place them back in the original self sealing bag for cultivation, with the transparent side facing upwards, and place them in a constant temperature incubator. The number of stacked pieces should not exceed 12, and the cultivation temperature should be 36 °C ± 1 °C. Incubate for 36-48 hours.

3. Read-out

The blue-green dots growing on the test paper are considered positive for *Listeria monocytogenes*. If there are no growth or other colored dots on the paper, it is considered negative for *Listeria monocytogenes*.



4. Shelf Life

The kit can be stored and transported at room temperature within 15 days, and then kept in the refrigerator at 4-10°C for 18 more months. Once the package is opened, the unused count plate shall be put back into the aluminum foil bag with sealed at 4-10°C and used up within one month.

5. Attention



Several other types of *Listeria monocytogenes*, such as *Listeria innocua* and *Listeria welshi*, do not grow or show white spots on the test piece of *Listeria monocytogenes*, which can distinguish them from other types of *Listeria monocytogenes*.

Please note that the test strips used contain live bacteria and should be promptly disposed of in accordance with the principles of biosafety waste disposal.

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