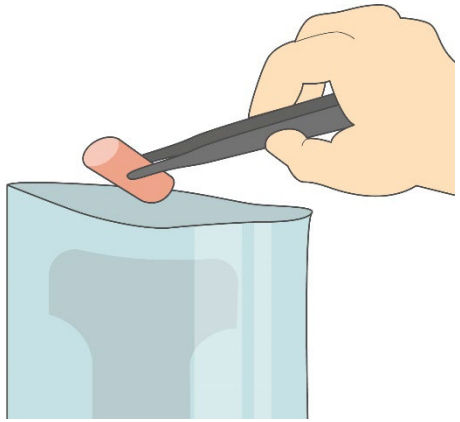
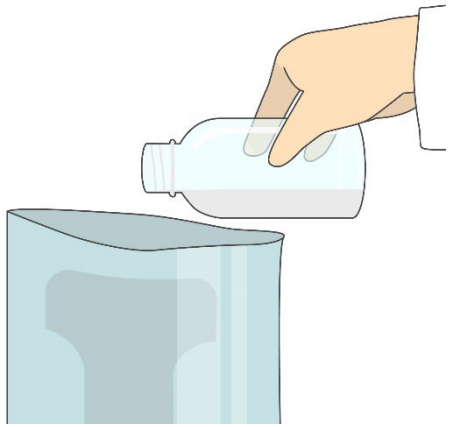
Compact Dry LM Procedure for Detection

Illustration Manual

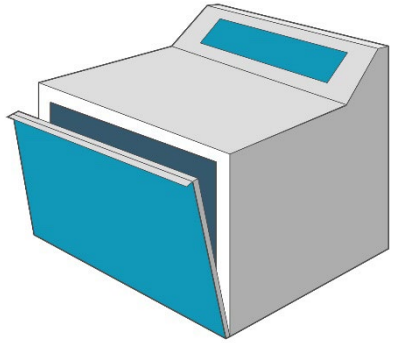
Shimadzu Diagnostics Corporation



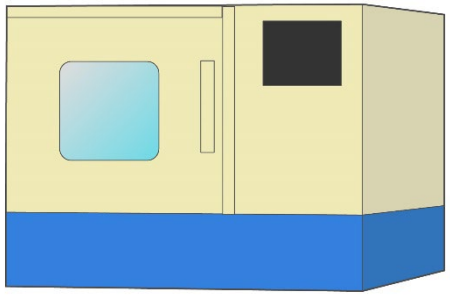


Weigh 25g solid sample

and add 225mL half-Fraser broth to the sample.

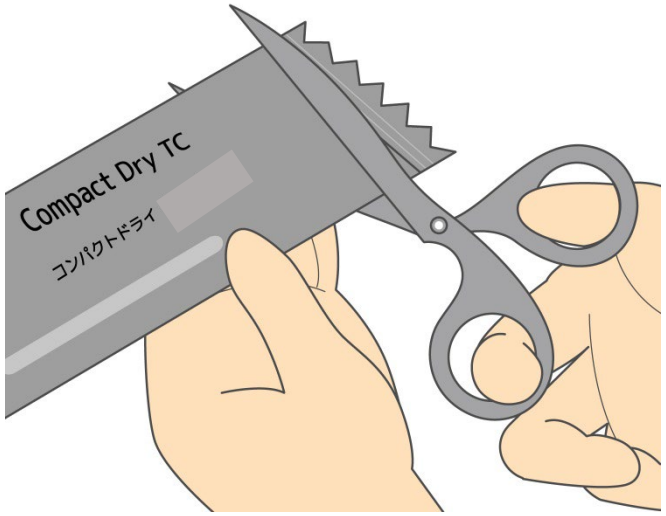


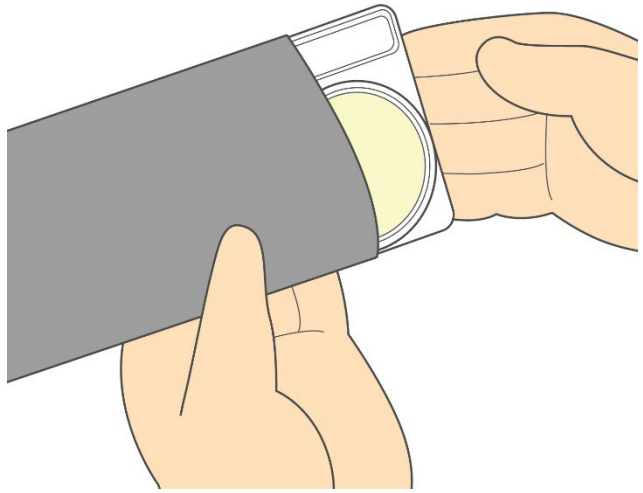
Homogenize this mixed sample by a blender

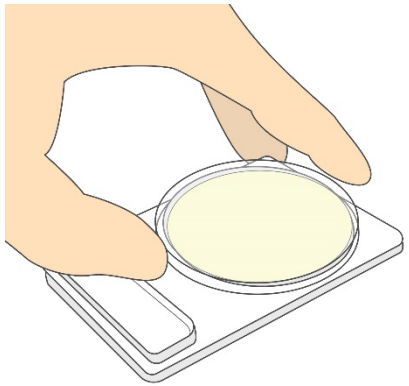


Incubate at 30 + 1℃ for 25 + 1 hours for enrichment culture.

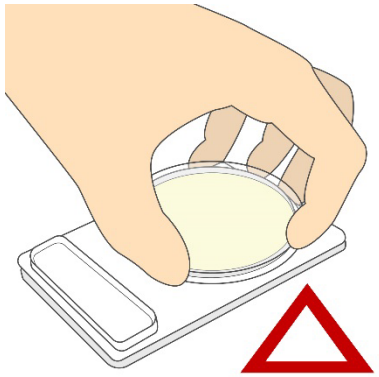
Open aluminum bag, and take out a set of 4 plates.

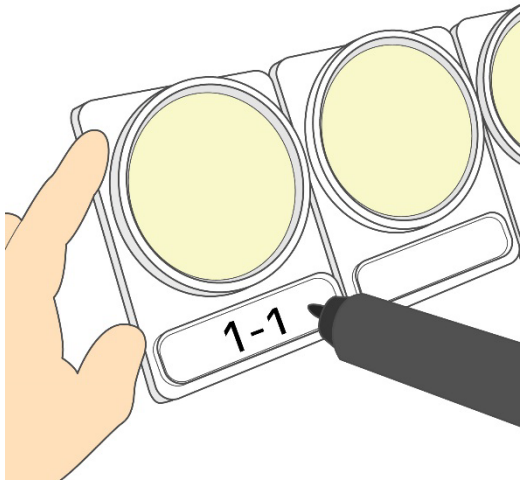




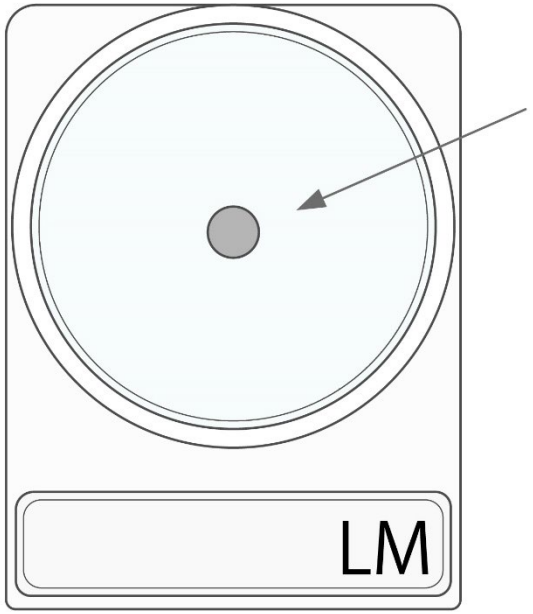


Take off the cap of the plate



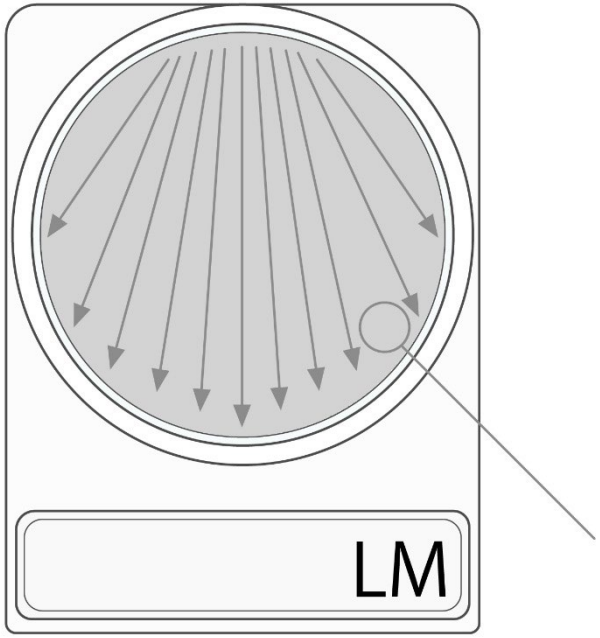


Write the appropriate information on the memorandum section.

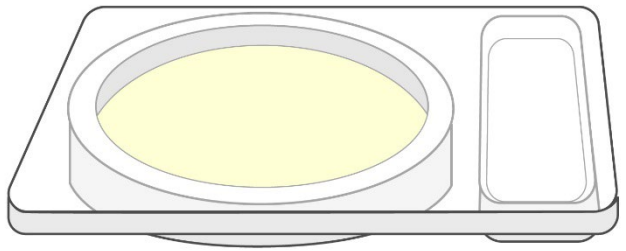


drop 1 ml of a sterilized diluent (ex. saline) in the middle of a dry sheet to transform the whole of the sheet to gel

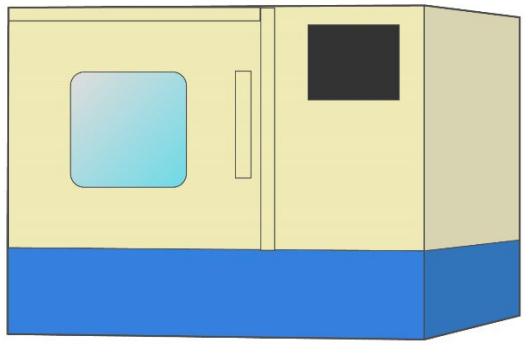
Drop 0.1 mL of enrichment culture in the middle of the sheet



Streak the sheet with the inoculum from top to bottom by a loop softly and spread it over the whole of the sheet in order to get single colonies.

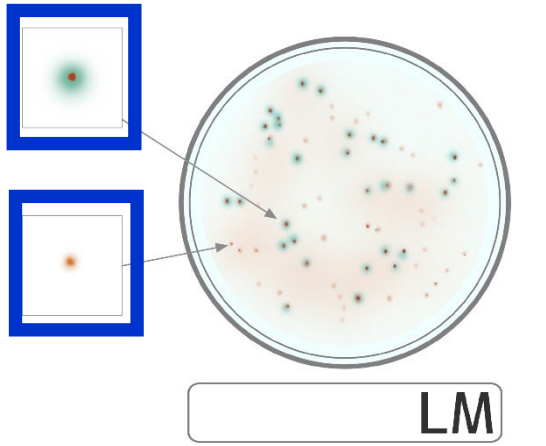


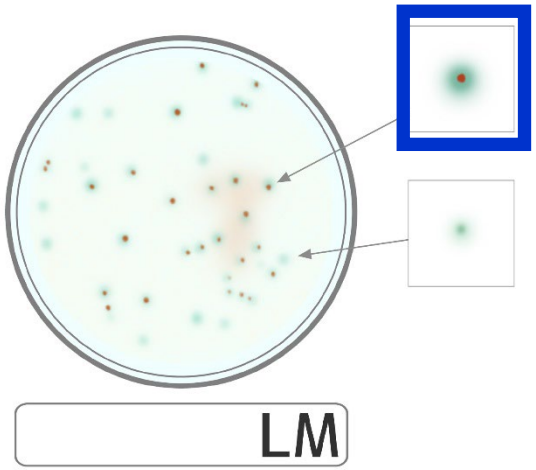
Turn over the plate capped



put in an incubator.
Incubate 24 + 2 hours at 37 + 1 ℃.

If colonies of presumptive L. monocytogenes are evident, the incubation may be stopped at this stage.
If they are not evident, incubate for additional 24 + 2 hours at 37 + 1 ℃.





Interpret red colonies with or without blue surrounds for presumptive L. monocytogenes.

If presumptive colonies of L. monocytogenes are observed, perform confirmation tests by ISO11290-1:2017, ISO11290-2:2017 or other methods.

From backside of the plate, count the number of colored colonies appeared in the medium.
White paper placed under the plate can help to count colonies easier.