# PRODUCT INFORMATION
## Pour plate method Procedure

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**Serial Dilution:** The sample is first serially diluted to ensure that the number of colonies on the plate will be countable (ideally 30–300 CFU per plate).
**Inoculation:** A measured volume (usually 1 mL) of the diluted sample is added to a sterile Petri dish.
**Addition of Molten Agar:** About 15–18 mL of molten agar (cooled to 40–45°C) is poured into the dish over the sample.
**Mixing:** The plate is gently swirled to mix the sample evenly with the agar.
**Solidification and Incubation:** The agar is allowed to solidify, and the plate is inverted and incubated at an appropriate temperature and time.
**Colony Counting:** After incubation, colonies are counted. Colonies grow both on the surface and within the medium; each colony represents a viable microorganism from the original sample.



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