

# Spore Vial in Liquid Culture Manual

**Product:** Spore Vial

**Description:** A vial containing 10 ml of spore suspension in demi water, suitable for direct inoculation into substrates or liquid culture preparations.

**Audience:** Intermediate-level customers with prior growing experience.

## Components Included:

- 10 ml spore vial (spore suspension in demi water)
- 1x 20 ml syringe
- 1 x syringe needle
- Alcohol swabs

## Components to add:

- Liquid Culture vial 10 ml for Medium kits
- Liquid Culture vial 25 ml for large kits

## Step-by-Step Instructions:

### Step 1: Preparations

#### Inspection:

- Inspect the spore vial to ensure the liquid is clear and free of contamination.
- Inspect that the liquid culture vial is clear and free of contamination.

#### Disinfection:

- Thoroughly clean your workspace, hands and forearms with antibacterial soap and disinfectant spray. If you have long hair, it is recommended to tie it up. You could use sterile gloves and a face mask for added sterility.
- Work in a low-draft and completely clean environment.

#### Syringe preparation and disinfection:

- Disinfect the needle and syringe with an alcohol swab.
- Thoroughly disinfect the injection port of both vials.

### Step 2: Extracting Spores

- Shake the spore vial vigorously to evenly distribute spores.
- Withdraw 5 ml of the spore suspension into the syringe.
- Store any remaining spore suspension vial in a refrigerator (optimal shelf life approx. 12 months).

### Step 3: Inject to liquid culture

- Inject the spore suspension into the liquid culture vial (10 ml).
- After injection, shake the liquid culture vial gently to evenly distribute spores.
- After partial use, disinfect the syringe needle and put the protective cap on.

### Step 4: Incubation

- Keep the spore injected liquid culture vial in a location with a stable temperature between 22–27°C (never exceed 27°C).
- Shake the liquid culture vial gently once daily.
- Within 3–4 days, visible mycelium growth should begin to appear.
- After 12–14 days, sufficient mycelium will have developed for substrate inoculation.

### Step 5: Inject into substrate

- Make sure to disinfect your hands, any tools used and the injection ports of the vial and the substrate.
- Gently shake the spore injected liquid culture vial to evenly distribute the mycelium.
- Withdraw the full content of the vial and inject it into your chosen substrate.
- After injecting the spores, make sure to tilt the grow **kit** sideways and up and down, or gently massage the grow **bag** to evenly distribute the spore liquid.