Vibrio cholerae 01/0139 Preservation Methods



- 1. Select a confirmed VC colony and inoculate onto fresh non-selective media*.
- **2.** Incubate at 35 ± 2 °C for 18-24 hours.
- 3. Check culture purity by ensuring the presence of well-isolated individual colonies without contaminants. Observe the isolate's appearance, then perform an oxidase test and serology to confirm.
- **4.** Regardless of the preservation method used work aseptically, all tubes must be carefully labelled with permanent marker or barcodes, and recorded in appropriate registers.

SOP:

SOP:

bottom.

2. Remove the inoculation tool.

4. Incubate at 35 ± 2 °C for 18-24 hours.

3. Replace lid loosely.

5. Check growth.

liquid can collect. 2. Replace lid loosely.

4. Check growth.

3. Incubate at 35 ± 2 °C for 18-24 hours.

NON-SELECTIVE SLANTS

Purpose: Laboratory stock strains.

Storage conditions: 22-25 °C in the dark.

Materials: Non-selective media slant*, loop, caps, sealing tape or parafilm, mineral oil.



NON-SELECTIVE STABS

Purpose: Sample shipping and laboratory stock strains. Storage conditions: 22-25 °C in the dark.

Materials: Semi-solid non-selective stab*, sterile loop or toothpick, caps and sealing tape or parafilm, mineral oil.



ULTRA LOW TEMPERATURE FREEZING W

Purpose: Long-term storage of strains, research or stock maintenance.

Storage conditions: \leq -70 °C.

Materials: Liquid media**, sterile glycerol stock solution, cryotube, freezer box, \leq -70 °C freezer, optional – cryobead vial, vortex.



SOP:

1. To prepare freezing media, add stock glycerol to liquid media to a final concentration of 10% glycerol[†] in a cryotube.

1. Inoculate agar surface using a loop from a fresh plate of

5. A layer of mineral oil can be added, before tightly closing

the lid, to create an airtight seal to avoid drying out.

1. Inoculate stab from a fresh plate of pure culture, insert a

heavily loaded loop or toothpick into the tube and push

through the agar until it is approximately 1 cm from the

6. A layer of mineral oil can be added, before tightly closing the lid, to create an airtight seal to avoid drying out.

pure culture, avoid going to the bottom of the slant where

2. Inoculate a heavy load from a fresh plate of pure culture into prepared tube.

Or if using cryobeads: follow the manufacturer's instructions. Add the bacterial culture to the cryobead vial.

- Mix or vortex well.
- **4.** Record number of freezer box and position of tube in the box.
- **5.** Immediately place into \leq -70 °C freezer.

Up to 1 year \ddagger

Indefinitely **‡**

* Non-selective agar, such as Mueller Hinton (recommended), Brain Heart Infusion, or Trypticase soy maybe used.

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GLOBAL TASK FORCE ON

CHOLERA CONTROL

** Appropriate liquid culture medium such as Trypticase soy broth, Brucella broth or Luria Bertani broth maybe used. + Use of up to 30% glycerol has been reported however ATCC recommends a final concentration of 10% https://www.atcc.org/resources/culture-guides/bacteriology-culture-guide ‡ Storage time may depend on number of times samples are opened or number of freeze thaw cycles.