- **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.

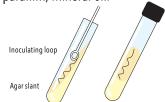
NON-SELECTIVE SLANTS

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.



SOP:

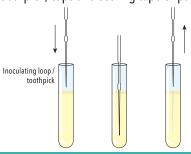
- **1.** Inoculate agar surface using a loop from a fresh plate of pure culture, avoid going to the bottom of the slant where liquid can collect.
- 2. Replace lid loosely.
- **3.** Incubate at 35 ± 2 °C for 18-24 hours.
- 4. Check growth.
- **5.** A layer of mineral oil can be added, before tightly closing the lid, to create an airtight seal to avoid drying out.

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.



SOP:

- 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 bottom.
- **2.** Remove the inoculation tool.
- **3.** Replace lid loosely.
- **4.** Incubate at 35 ± 2 °C for 18-24 hours.
- **5.** Check growth.
- **6.** A layer of mineral oil can be added, before tightly closing the lid, to create an airtight seal to avoid drying out.

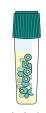
ULTRA LOW TEMPERATURE FREEZING

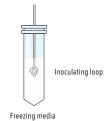
Purpose: Long-term storage of strains, research or stock maintenance.

Storage conditions: ≤-70 °C.

Materials: Liquid media**, sterile glycerol stock solution, cryotube, freezer box, ≤-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.
- **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.
- 3. Mix or vortex well.
- **4.** Record number of freezer box and position of tube in the box.
- **5.** Immediately place into ≤-70 °C freezer.

^{*} Non-selective agar, such as Mueller Hinton (recommended), Brain Heart Infusion, or Trypticase soy may be used.

^{**} Appropriate liquid culture medium such as Trypticase soy broth, Brucella broth or Luria Bertani broth may be 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