SOP: M031
Written: 1/13/23 DRM

Preparation of GAS + 20% Glycerol Stock Solution

Materials and Reagents:

1. GAS Media
2. 80% glycerol stock solution
3. 16 x 100mm glass tubes with screw caps
4. 16 mini stir bars
5. P1000 pipetmen with tips
6. Tube rack
7. BioSafety Cabinet
8. Autoclave

Protocol:

1._____ Prepare the 1L of GAS media (SOP:M001).

2._____ Place glass tubes into tube rack and place a mini stir bar into each tube.

3._____ Prepare the BioSafety cabinet (SOP:SP041).

4._____ Aseptically place all needed materials and reagents into the BioSafety Cabinet.

5._____ Using a Pipetman, add 1.6mL (1600uL) GAS media into each tube.

6._____ Next, add 0.5mL (500uL) of the 80% glycerol stock solution to each tube.

7._____ Loosely secure the cap onto each tube.

8._____ Remove the tube rack from the BioSafety cabinet. Attach a strip of autoclave tape to the rack and autoclave using a liquid cycle (slow exhaust) at 121^{o}C for 45 minutes.

Reference:

Takayama, K., H. K. Schnoes, E. L. Armstrong, and R. W. Boyle. 1975. Site of inhibitory action of isoniazid in the synthesis of mycolic acids in Mycobacterium tuberculosis. J. Lipid Res. 16: 308-317.