Bacteriophage Cryopreservation

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Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.

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Protocol

Preparation
Step 1.

Vortex a freshly lysed culture for 10 sec

Preparation
Step 2.

Add 1 mL of phage into each cryogenic vial

AMOUNT
1 ml Additional info:

Preparation
Step 3.

Add 1 mL of 20% glycerol to each vial with phage

AMOUNT
1 ml Additional info:

REAGENTS
Glycerol MRGE-4002 by growcells.com

Preparation
Step 4.

Invert tubes several times

Preparation
Step 5.

Place immediately in a -80ºC freezer

Transferring frozen virus particles

Step 6.

Remove cryogenic vials one at a time from the freezer

Transferring frozen virus particles

Step 7.

Using a sterile pipette tip, scrape a small amount of frozen virus particles into a 20 mL mid-log culture

Transferring frozen virus particles

Step 8.

Place cryogenic vials immediately back into the freezer

Transferring frozen virus particles

Step 9.

Allow to incubate and lyse culture under constant light conditions appropriate for your specific culture