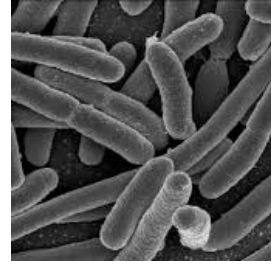


Jun 23, 2017

Bacterial Cryopreservation

DOI

<https://dx.doi.org/10.17504/protocols.io.ihnbc5e>



Dr. Steven Wilhelm

The Aquatic Microbial E...



Steven W W Wilhelm

The University of Tennessee, Knoxville

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.ihnbc5e>

Protocol Citation: Dr. Steven Wilhelm 2017. Bacterial Cryopreservation. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.ihnbc5e>

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited



Protocol status: Working

Created: June 16, 2017

Last Modified: November 09, 2017

Protocol Integer ID: 6414

Keywords: bacterial cryopreservation

Abstract

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



Preparation

- 1 Take a dense culture and transfer a volume of cells (usually 20 mL) into a sterile centrifuge tube
- 2 Spin down the culture at 4,500 rpm, 10 min
 00:10:00
- 3 Decant supernatant into bacterial waste
- 4 Resuspend pellet into 2 mL of the appropriate growth medium
- 5 Vortex 10 sec
- 6 Split the 2 mL into two cryogenic vials by adding 1 mL to each vial
- 7 Invert to mix several times
- 8 Immediately place into -80°C freezer

Transferring Cells

- 9 Remove cryogenic vials one at a time from the freezer
- 10 Using a sterile pipette tip, scrape a small amount of frozen cells and place into 20 mL sterile growth medium. Slowly move the cells to the appropriate growth conditions.
 20 µL
- 11 Place cryogenic vial immediately back into the freezer