iGEM 2017 – Microbiology – BMB – SDU

Title: Bacterial freezing stock **SOP number:** SOP11 **Version number:** 02	**Date issued:** 2012.10.26 **Review date:** 2017.05.01 **Written by:** MM **Modified by:** JB

1. Purpose

To freeze new strains of bacteria in -80°C

2. Area of application

This procedure is valid for all *E. coli* strains

3. Apparatus and equipment

Apparatus/equipment	Location (Room number)	Check points	Criteria for approval/rejection
Freezer (-80 °C)	Laboratory (class 1) – V18-404b-0 Laboratory (class 2) – V15-501b-2		-75 °C - -80 °C
Pipette p1000			
15 ml tube rack	Hallway storage (1. Floor)		
Vortex			

4. Materials and reagents – their shelf life and risk labelling

Name	Components (Concentrations)	Manufacturer / Cat. #	Room	Safety considerations
Glycerol	50 %	AppliChem	Anne Mette, RT	
Blue pipette tips		Contact Lab-manager	Micro storage	
Freezing tubes		Contact Lab-manager	Micro storage	

5. QC – Quality Control

6. List of other SOPs relevant to this SOP

iGEM2017_SOP02_v02_FN_ONC_E.coli

7. Environmental conditions required

8. Procedure

8.1 Add 300 µL 50 % glycerol to each sterile freezing tube
8.2 Vortex ON culture of bacteria
8.3 Add 900 µL ON culture to each freezing tube with glycerol
8.4 Pipette up and down to mix
8.5 Check register sheet for number for the cultures and write on the tubes
8.6 Add to strain collection

9. Waste handling

Chemical name	Concentration	Type of waste (C, Z…)	Remarks
ON Culture		Liquid bacterial waste	
Once use plastic		GMO yellow waste	

10. Time consumption

- Total-time 15 min.
- Hands-on-time 15 min.

11. Scheme of development

Date / Initials	Version No.	Description of changes
12.10.25 / MM	01	The SOP has been written
13.01.03 / MM & TK	01	The SOP has been approved
17.05.01 / JB	02	The SOP has been modified
17.05.01 / EG	02	The SOP has been approved

12. Appendices