

# Cryopreservation

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## Abstract

Cryopreservation of cells in 50% glycerol

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## Materials

Glycerol MRGE-4002 by [growcells.com](https://growcells.com)

## Protocol

### Step 1.

Dilute 100% Glycerol to 50% Glycerol. In a sterile 50ml Falcon tube pour 25ml 100% glycerol. Add 25ml autoclaved MilliQ and mix thoroughly. Pour into sterile reservoir.



### REAGENTS

Glycerol MRGE-4002 by [growcells.com](https://growcells.com)

### Step 2.

In sterile 500ml deep 96 well plate add 240µl of 50% glycerol to each well using an 8 channel pipet

### Step 3.

Take pore film off of 2ml deep 96 well plate.

### Step 4.

Using a 12 channel 200µl pipet, pipet up and down from bottom of wells 3 times, then transfer 160µl from each well to the plate with glycerol. Pipet up and down in glycerol 5 times.

### Step 5.

Repeat step 4 for all rows/wells

### Step 6.

Seal 500ml deep 96 well plate (glycerol plate) with foil. Place in shaker for 30 minutes.

### **Step 7.**

Re-seal 2ml deep 96 well plate with pore film and place in refrigerator.

#### ■ **ANNOTATIONS**

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\*with new pore film

### **Step 8.**

After 30 minutes on shaker, place 500ml deep plate in -80°C freezer