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Thawing and Seeding Frozen Cells



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ABSTRACT

How to thaw cells from the liquid nitrogen storage and seed into a tissue culture flask

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

GUIDELINES

Wear gloves. Spray anything entering or exiting the biosafety cabinet with 70% Ethanol.

MATERIALS TEXT

- (1) T-75 or T-25 flask per frozen cell vial (or more if plating at a lower density)
- (1) 15 mL centrifuge tube per frozen cell vial
- (1) 10 mL serological pipette tip per T-75 flask or (1) 5 mL serological pipette tip per T-25 flask

Warmed cell culture media

 $1000 \, \mu L$ filter pipette tips

BEFORE STARTING

UV appropriate number of flasks, 15 mL centrifuge tubes, waste beaker, and serological pipette tips. Warm appropriate cell culture media.

Thaw Cells

Thaw cells by suspending in 🐧 37 °C water bath until completely thawed, but no longer than necessary

Transfer cell suspension

Within biosafety cabinet, transfer cell suspension to 15 mL centrifuge tube using 1000 μL pipette.

Dilute freezing medium

3 1 ml warmed cell culture medium to cell suspension dropwise.



Adding the inital cell culture medium slowly helps prevent cell death caused by a rapid change in osmotic pressure.

Add an additional 3 ml warmed cell culture medium to cell suspension slowly.

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Don't forget to remove the vial you used from the frozen storage inventory.

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