

Thawing Instructions for Frozen Media

This document describes the recommended thawing procedures for frozen CELLnTEC media.

General Notes

The key factors for successful thawing are as follows:

- The media bottle must be **swirled regularly** during thawing. This ensures good mixing of the ingredients, temperature equilibration, and avoids precipitation of certain components.
- Do not thaw medium without **constant or regular mixing**.
- When thawing, **room temperature** should not be exceeded to protect the contents of the medium bottle.
- We recommend using a **water bath** for thawing media bottles.
- **Do not** thaw frozen medium **overnight in a fridge!**
- We recommend to thaw medium bottles at least one day before intended use.

Preparation

Thawing in a shaking water bath:

Using a shaking water bath can reduce the thawing time to about 30-40 minutes.

1. Remove the shrink wrap and close the bottle tightly.
2. Place the bottle in a water bath set to **room temperature** and set to a **suitable shaking frequency** to mix the contents of the bottles well. This is usually in the range between 150 to 200 rpm. Do not use higher temperatures.
3. Make sure that the water reaches the medium fill level to ensure efficient thawing.
4. After **10 minutes**, swirl the bottles vigorously by hand.
5. Stop the process as soon as the last piece of ice has melted to avoid overheating.
6. Remove the thawed bottles, spray them thoroughly with **70% ethanol**, and allow them to air dry.
7. Write the thawing date on the bottle and store the medium in the fridge (**2-8 °C**) until use.

Thawing in a water bath:

1. Remove the shrink wrap and close the bottle tightly.
2. Place the bottle in a water bath at **room temperature**. Do not use higher temperatures.
3. Make sure that the water reaches the medium fill level to ensure efficient thawing.
4. Swirl the bottle **every 15-20 minutes** to ensure good mixing of the ingredients and even temperature distribution. Thawing can take up to 1 hour.
5. Stop the process as soon as the last piece of ice has melted to avoid overheating.
6. Remove the thawed bottles, spray them thoroughly with **70% ethanol**, and allow them to air dry.
7. Write the thawing date on the bottle and store the medium in the **fridge (2-8 °C)** until use.

Please Note

- Store at **2-8 °C** in the dark and minimize warming to higher temperatures.
- Certain culture media components are sensitive to light. **Minimize exposure to light at all times.**
- If the writing on the label becomes damaged during thawing, we recommend to decrease the temperature of the water bath by a few degrees.

Further questions?

CELLnTEC scientists work regularly with these cultures and are available in case further questions arise.

To contact them directly, please email: **support@cellntec.com**