

Instructions for Thawing Accutase® Cell Detachment Solution

Protocol

CORNING



Accutase® is an effective solution for routinely detaching cells from standard tissue culture-treated vessels, as well as advanced surface treatments or coatings. Accutase is useful for cell detachment and for preparing single-cell suspensions from clumped cell populations for sub-culturing cells, analytical studies, and for accurate cell counting. Accutase is free of mammalian or bacterial-derived products, which reduces the risk of contamination.

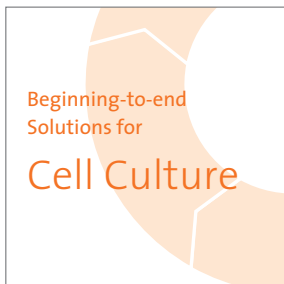
Accutase is formulated at a concentration that is ready to use, once thawed. (Note: Never thaw Accutase at 37°C.) A thawed bottle of Accutase can be removed from the refrigerator and immediately applied to cells. It should not be pre-warmed to 37°C. Accutase contains proteolytic activity that gently breaks down cellular adhesion molecules and enables cell detachment from the bottom of the flask.

The Accutase cell detachment solution is a robust enzyme mixture that requires specific handling for optimal performance. Below is a list of tips and techniques for the proper thawing of Accutase.

- ▶ Accutase is sensitive to temperatures above 37°C and it will be inactivated after 45 minutes at 37°C. Therefore, do not thaw in a warm water bath.
- ▶ Accutase should be thawed overnight in the refrigerator or placed in a bath of cold tap water. It will take approximately 1 to 1.5 hours to thaw a bottle placed in cold water.
- ▶ Gently shake the bottle of Accutase after thawing. As the solution thaws, the components will melt unevenly.
- ▶ Although Accutase can be thawed, aliquoted, and then refrozen, it is not necessary to store this material in the freezer. Accutase will remain stable in the refrigerator for at least 1 month. However, it should be removed from the refrigerator, used promptly, and then returned to the refrigerator after use. There is no requirement to warm the solution prior to use.

Please note: Enzymes found in Accutase are very heat-sensitive. It is important to follow precautions from product arrival through product use. A bottle of Accutase will be yellow in color when fully frozen, and it will change to an orange color upon thawing. This color change is normal. When you receive a bottle of Accutase, there should be an ice cube floating in the solution, which means it has arrived in proper condition. Once unpacked, the product can be refrozen or placed directly into the refrigerator for later use.

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At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

It is this expertise, plus a 160-year history of Corning innovation and manufacturing excellence, that puts us in a unique position to offer a beginning-to-end portfolio of high-quality, reliable cell culture consumables.

For additional product or technical information, visit www.corning.com/lifesciences, or contact our Scientific Support Team at ScientificSupportEMEA@corning.com.

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