



BacOut™ Antibiotics

Cat. No. G7000

Store at -20°C. Stable for 6 months if properly stored.

Product Description

Bacterial contamination is one of the most significant issues associated with any daily cell culture practices. Once contaminated, cell culture medium becomes turbulent and cell culture of interests has to be discarded, leading to loss in time and cost. In the case of cell culture of interests has no backup inventory or time-consuming cell engineering projects (in the middle of projects, like during a candidate hybridoma clone screening), the loss may not be measurable with time and money. To date, there are no products or services available to handle this special situation commonly seen in daily cell culture.

As a leading institution in cell biology technology, **abm** has successfully developed a new antibiotic cocktail that offers both of a product and services, allowing successful recovery of your precious cells.

Product Component	Quality	Quantity
G7000	BacOut™	2 x 1.0 ml

BacOut™ Cell Culture Decontamination Protocol

1. Initial Wash to Remove Free-Floating Bacteria

Prior to treatment, thoroughly wash cells to reduce existing bacterial load:

- **Adherent cells:** Rinse vigorously with serum-free medium or 1X PBS directly in the flask or plate.
- **Suspension cells:** Perform multiple centrifugation and wash cycles using culture medium or 1X PBS.

Tip: Perform treatment in a T25 or T75 flask with a vented cap for ease of handling and optimal gas exchange.

2. Initiate BacOut™ Treatment

When possible, treat cells at a high density (80–90% confluency). Add BacOut™ to the culture medium at a **1:50 dilution** (e.g. 100 µl BacOut™ in 5 ml culture medium).

Tip: Always start treatment early in the day (ideally between 8:00–9:00 am) for best results, as the initial treatment day is critical for successful contamination control.

3. Frequent Treatment Cycles on Day 1

Repeat Steps 1 and 2 every **2 hours**, as bacterial populations can double in as little as 20 minutes. Gently swirl the medium in the flask to ensure BacOut™ contacts all surfaces, including the upper areas of the culture vessel (flask culture vessels are recommended).

*Recommended: Complete a total of **4 treatment cycles** on Day 1, starting in the early morning.*

4. Assess Cytotoxicity at End of Day 1 (4:00–5:00 pm)

Examine cultures under a microscope:

- **If no significant cytotoxicity is observed:** Continue overnight treatment with BacOut™ at **1:50 dilution**.
- **If cytotoxic effects are present:** Reduce BacOut™ concentration to **1:100** for overnight incubation.

5. Day 2 and Beyond

By Day 2, bacterial growth should be under control. Continue treatment as follows:

- Repeat washing and treatment (Steps 1 and 2) using BacOut™ at **1:100 dilution**.
- Maintain this routine for an additional **2 days**.

6. Recovery Phase

Transition to long-term culture by supplementing the medium with BacOut™ at a **1:200 dilution** for **1–2 weeks**.

Tip: Freeze a backup vial of recovered cells before returning to standard antibiotic conditions.

General Notes

- Strict adherence to the treatment schedule on Day 1 is crucial for the successful recovery of contaminated cell cultures. Early, frequent intervention significantly improves the chances of eliminating bacterial contamination while preserving cell viability.