



## NanOut™ 1000X

### Cat. No. G7002

Store at 4°C. -20°C for long term storage.

### Product Description

abm's NanOut™ 1000X is a next-generation, broad-spectrum Nanobacteria cocktail specifically engineered to **eliminate and prevent Nanobacteria contamination** in both adherent and suspension cell cultures.

Through a **dual-action mechanism**, NanOut™ disrupts two essential processes for Nanobacteria survival:

- **Protein synthesis inhibition** – blocks Nanobacteria ribosomal activity preferentially
- **DNA replication inhibition** – targets Nanobacteria DNA gyrase and topoisomerase

#### Key Features

- **Broad-spectrum coverage:** Effective against intracellular and wall-less forms
- **Built-in prevention:** Use at 1:2000 dilution for long-term protection
- **Low toxicity:** Safe for most mammalian cells, even at 10–100X the working concentration
- **Convenient format:** Ready-to-use concentrate for flexible application

Cat. No.	Product	Quantity
G7002	NanOut™	2 x 1.0 ml

### Nanobacteria Prevention Protocol

Simply apply NanOut™ at a dilution of **1:2000** with your routine culture medium to prevent Nanobacteria from contamination. There is no evidence of any functional and genetic changes to all cell lines tested to date.

### Nanobacteria Elimination Protocol

#### 1. Pre-Treatment Wash

Before beginning treatment, remove contaminated media:

- **Adherent Cells:** Rinse cells directly in the flask or plate using serum-free medium.
- **Suspension Cells:** Wash cells with medium, followed by centrifugation. Repeat as needed to ensure thorough removal of contaminated media.

#### 2. Recommended Setup

- Conduct treatment in a **T25 flask with a vented cap** to ensure proper gas exchange and ease of handling.
- Add **NanOut™ 1000X** to your culture medium at a **1:1,000 dilution**.

#### 3. Treatment Duration

- Nanobacteria belong to a newly described class of **acidophilic bacteria** (like Tuberculosis bacteria) that grow extremely slowly (requiring several weeks to proliferate).
- Because of this slow growth, **treatment requires a minimum of 3 months** to observe visible control in most cell types.
- In some cell lines, **up to 6 months** may be necessary to achieve complete elimination.