

# Primocin™

For prevention of mycoplasma and fungal contamination in primary cell cultures

Catalog # ant-pm-1, ant-pm-2

For research use only

Version # 12I05-MM

## PRODUCT INFORMATION

### Contents:

- **Primocin™** is supplied as either 10 x 1 ml tubes, or 1 x 20 ml bottle of a 50 mg/ml clear aqueous solution, filtered to sterility, and validated for cell-culture usage.

- **Primocin™** is ready-to-use, one 1 ml vial is sufficient for 500 ml of culture medium. One 20 ml bottle will treat 10 L of culture medium.

### Shipping and Storage:

**Primocin™** is shipped at room temperature and should be stored at 4°C for immediate use, or -20°C for long term storage.

**Primocin™** is stable 2 weeks at room temperature, 3 months at 4°C, and 18 months at -20°C.

### Quality Control:

Activity of **Primocin™** is rigorously controlled by physicochemical and microbiological assays.

## GENERAL PRODUCT USE

Primary cells are valuable models for scientific experimentation, however they are highly susceptible to contaminations either from the host animal or during the dissection process. InvivoGen has developed the antibiotic **Primocin™** for use as a supplement to primary culture media that will offer complete protection against microbial contaminants.

## DESCRIPTION / PROPERTIES

**Primocin™** is a new antibiotic formulation specifically designed to protect primary cells from cell culture contaminations. **Primocin™** is active against both Gram+ and Gram- bacteria, mycoplasma and fungi. **Primocin™** is the first formulation to offer complete protection against microbial contaminants. There is no need to add Pen/Strep.

**Primocin™** is a combination of antibacterial and antifungal compounds. The antibacterial agents eliminate mycoplasma and a wide range of bacteria by blocking both DNA and protein synthesis. The antimycotic agent in **Primocin™** is more stable and less toxic than Amphotericin B.

## CELL TOXICITY

**Primocin™** is non-toxic to primary cells. It acts on targets found only in micro-organisms. The bacterial targets are the DNA gyrase and prokaryotic 30S and 50S ribosomal subunits. The fungal target is ergosterol, a molecule found only in the cell membrane of fungi and yeasts.

## METHOD

For primary cell culture maintenance, **Primocin™** is used at a concentration of 100µg/ml, which represents a 1:500 dilution of stock solution. Refer to the table below to determine the quantity of **Primocin™** needed.

Medium Format	35 mm plate	60 mm plate	100 mm plate	100 ml flask	500 ml bottle
Medium Volume	2 ml	5 ml	10 ml	100 ml	500 ml
<b>Primocin™</b> Volume	4 µl	10 µl	20 µl	200 µl	1 ml

- 1- Split an actively dividing culture of cells into medium containing 100µg/ml of **Primocin™**.
- 2- Remove and replace by fresh **Primocin™** containing medium every 3-4 days.
- 3- Repeat every time you change culture medium.

## TECHNICAL SUPPORT

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