

Primocin™

For prevention of bacteria, mycoplasma and fungal contamination in eukaryotic primary cell cultures

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

For research use only

Version # 06J21-MP

PRODUCT INFORMATION

Content:

- **Primocin™** is supplied as either 10x1ml tubes, or 1x20 ml bottle of a 50mg/ml colorless aqueous solution, filtered to sterility, and validated for cell-culture usage.

- **Primocin™** is ready-to-use, one 1ml vial is sufficient for 500ml of culture medium, one 20ml bottle will treat 10L 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 one month at +4°C and 18 months at -20°C.

Quality Control:

Activity of **Primocin™** is rigorously controlled by physico-chemical and microbiological assays.

SPECIAL HANDLING

Primocin™ may be a hazardous compound: avoid contact with skin, harmful if swallowed.

GENERAL PRODUCT USE

Primocin™ is used as a "routine addition" to cell culture media to prevent mycoplasma, bacterial and fungal contaminations in small or large scale animal primary cell cultures.

No need to add Pen / Strep preparations.

DESCRIPTION / PROPERTIES

- **Primocin™** is an innovative formulation of several antibiotics to prevent eubacteria, mycoplasma, fungi and yeast. It displays very efficient anti-mycoplasma action, and is active on a broader spectrum of bacteria than current Pen / Strep preparations.

- **Primocin™** kills free mycoplasma before they can infect the cells. In comparison with other antibiotics commonly used, **Primocin™** is truly bactericidal and not simply bacteriostatic.

Current commercial antibacterial agents display selective toxicity against either Gram+ or Gram- bacteria, whereas both antibacterial components of **Primocin™** are active against both Gram+ and Gram- bacteria and mycoplasma. The antimycotic agent in **Primocin™** is more stable and less toxic than Amphotericin B. The active concentration of **Primocin™**, 100µg/ml, displays no toxicity to the primary cells being treated. Antibacterial and antifungal agents act on targets found only in microorganisms (prokaryotic 30S and 50S ribosomal sub-units, fungal ergosterol)

CELL TOXICITY

To date, no data on toxicity of **Primocin™** to cell lines being treated with the recommended concentrations have been reported.

METHOD

For 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 |
| Primocin™ Volume | 4 µl | 10 µl | 20 µl | 200 µl | 1 ml |

- 1- Place the primary 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

Toll free (US): 888-457-5873

Outside US: (+1) 858-457-5873

E-mail: info@invivogen.com

Website: www.invivogen.com



3950 Sorrento Valley Blvd. Suite A
San Diego, CA92121 - USA