Fungin™

For treatment of Yeast and Fungi infection in eukaryotic cell cultures

Catalog # ant-fn-1, ant-fn-2

For research use only

Version # 05A19-SV

PRODUCT INFORMATION

Content:

Fungin™ is provided as either 5 x 1.5 ml tubes, or 1 x 20 ml bottle of a 10 mg/ml light yellow aqueous solution (pH 7.5), filtered to sterility, and validated for cell culture usage.
One vial is supplied to treat at least 300 ml to 1.5 liters of culture.
One 20 ml bottle can treat between 4 and 20 liters of culture.

Shipping and Storage:

- **Fungin**™ is shipped at room temperature. Upon receipt it should be stored at 4°C for immediate use, or at –20°C for long term storage.
- **Fungin**™ is stable one month at room temperature, and 18 months at –20°C.

Quality Control:

Fungin ™ is used to cure fungi and yeast infected cell lines. **Fungin**™ is suitable for research purpose only. It must not be used on humans.
Activity of each batch of **Fungin**™ is rigorously controlled by physicochemical and microbiological assays

SPECIAL HANDLING

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

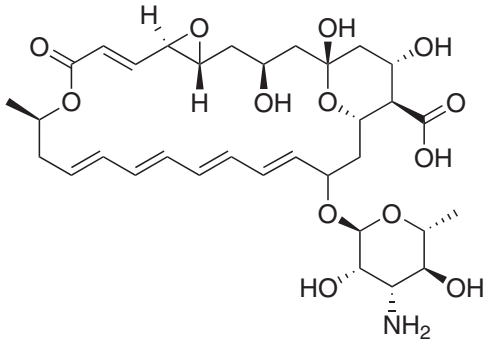
GENERAL PRODUCT USE

Fungin™ is used as a "routine addition" to cell culture media to prevent yeast and fungal contaminations in small or large scale animal cell cultures.
Fungin™ replaces Ampho B preparations.

DESCRIPTION / PROPERTIES

Formula: $C_{33}H_{47}NO_{13}$

Molecular weight: 665.74



Fungin™ is a new soluble formulation of Pimaricin, a polyene newly introduced to use in cell culture safety.
Fungin™ is a highly stable soluble compound, it does not need to be dissolved in toxic deoxycholate.

Fungin™ kills fungi and yeast by interfering with the cell membrane. The ergosterol, only found in fungi and yeast, is the primary site of action of Pimaricin. This polyene-induced distortion of selective membrane permeability results in a leakage of potassium and magnesium ions and a decrease of macromolecule synthesis. The death of fungi and yeast cells is characterized by the penetration of protons resulting in intracellular acidification.

RESISTANCE

Reports on resistance to polyenes are rare despite widespread use for more than thirty years.

CELL TOXICITY

To date, no data on toxicity of **Fungin**™ to cell lines being treated have been reported. **Fungin**™ is compatible with Pen / Strep solutions.

METHOD

Treatment of fungi and yeast infected cell cultures:

Fungin™ treatment requires little hands on manipulation and is completed in only 5-10 days . It is used at 50µg/ml which represents a 1/200 dilution of the 10mg/ml stock solution. Refer to the table below to determine the quantity of **Fungin**™ 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
Fungin™ Volume	10 µl	25 µl	50 µl	500 µl	2.5 ml

Maintenance use against fungi and yeast infections:

For maintenance of a fungi and yeast free culture, **Fungin**™ is used at the concentration of 10µg/ml that represents a 1/1000 dilution of the 10mg/ml stock solution.

TECHNICAL SUPPORT
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