

### ★ Storage

Store at -20°C.

### ★ Contents

- Product Manual
- Cellmaxin, 10mg/ml

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Introduction

Cellmaxin is a new antibiotic formulation specially designed to protect cell culture system from mycoplasma contamination. Cellmaxin is a unique anti-mycoplasma reagent that contains a unique combination of macrolide and quinolone. Unlike other anti-mycoplasma reagent that requires the sequential and cyclic use of two antibiotics, Cellmaxin is ready-to-use and can be added to cell culture medium directly. Furthermore, two components in Cellmaxin act on separate targets blocking protein synthesis and DNA replication. Therefore, Cellmaxin is more effective in eliminating mycoplasma and prevent the appearance of resistant strains. The quinolone in Cellmaxin can enter cells easily and therefore are active on both intracellular pathogens as well as free mycoplasma. For many Gram+ bacteria, the target of Cellmaxin is topoisomerase IV which eukaryotic cells do not contain. Therefore Cellmaxin is less toxic than other anti-mycoplasma reagents. The working concentration of Cellmaxin varies with the organism, cell type, environmental conditions, and growth stage. However, a concentration of 10ug/ml is active most strains of bacteria and a number of mycoplasma strains. Cellmaxin is active against mycoplasma, Gram+ bacteria and Gram- bacteria at low concentration (5-20ug/ml). There is no need to add Penicillin-Sterptomycin during the Cellmaxin treatment. Cellmaxin is provided as 10mg/ml clear filtered solution.

### ★ Cell Toxicity

Cellmaxin is non-toxic to primary cells. It acts on targets found only in micro-organism. 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.

### ★ Special Handling

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

### ★ Protocol

#### For treatment of Mycoplasma infected cell culture: 20ug/ml

1. Remove contaminated medium from cell culture vessels by aspiration.
2. Add new medium containing Cellmaxin at the final concentration of 20ug/ml
3. Remove and replace with fresh Cellmaxin containing medium every 3-4 days for 2 weeks.

	35mm plate	60mm plate	100mm plate	100ml flask	500ml flask
Medium Vol.	2ml	5ml	10ml	100ml	500ml
Cellmaxin Vol.	4ul	10ul	20ul	200ul	1ml

#### For maintenance of Mycoplasma free culture: 5ug/ml

Use Cellmaxin at the final concentration of 5ug/ml to prevent mycoplasma

	35mm plate	60mm plate	100mm plate	100ml flask	500ml flask
Medium Vol.	2ml	5ml	10ml	100ml	500ml
Cellmaxin Vol.	1ul	2.5ul	5ul	60ul	250ul

### ★ Related Products

Product Name	Cat No
Albumin	A0100
Ceracryo Cell Freezing Media, Xeno Free	C0667
Cellmaxin Plus, 10.5mg/ml	C3319
Ceracol Collagen Type I Solution, 1mg/ml	CA081
Fibronectin, Bovine, Stabilized Solution, 1mg/ml	CA082
Fibronectin, Human, Stabilized Solution, 1mg/ml	CA083
Insulin-Transferrin-Selenium Solution I (1,000X), Animal Free	CA200
Fetal Bovine Serum, Premium, US Origin	F0600
FBS, Mouse Embryonic Stem cell and iPSC Optimized	F0650
FBS OptiGold	F0900
FBS OptiGold, Premium, Heat Inactivated	F0910
Fungizol PS (100X)	F2100
LIF, Mouse Recombinant, 10 MIU/ml	L4501
WATER, 0.1um Final Filtered, cell culture tested	W0900