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Gibco™

Antibiotic-Antimycotic (100X)

Gibco™ Antibiotic-Antimycotic is used to prevent bacterial and fungal contamination. This solution contains 10,000 units/mL of penicillin, 10,000 µg/mL [Read more](#)

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Catalog Number	Quantity
15240096	20 mL
15240062	100 mL

Catalog number 15240096



Price (EUR) / 20 mL

,87

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Gibco™ Antibiotic-Antimycotic is used to prevent bacterial and fungal contamination. This solution contains 10,000 units/mL of penicillin, 10,000 µg/mL of streptomycin, and 25 µg/mL of Gibco Amphotericin B. The antibiotics penicillin and streptomycin prevent bacterial contamination of cell cultures due to their effective combined action against gram-positive and gram-negative bacteria. Amphotericin B prevents fungal contamination of cell cultures due to its inhibition of multi-cellular fungus and yeast.

Penicillin was originally purified from the fungus *Penicillium* and acts by interfering directly with the turnover of the bacteria cell wall and indirectly by triggering the release of enzymes that further alter the cell wall. Streptomycin was originally purified from *Streptomyces griseus*. It acts by binding to the 30S subunit of the bacterial ribosome leading to inhibition of protein synthesis and death in susceptible bacteria. Amphotericin B is an antifungal agent that prevents the growth of fungi and yeast by causing an increase in fungal plasma membrane permeability.

For Research Use Only. Not for use in diagnostic procedures.

Specifications

Concentration	100 X
Culture Type	Mammalian Cell Culture
Form	Liquid
Product Type	Antibiotic-Antimycotic
Shelf Life	12 Months
Sterility	Sterile-filtered
Quantity	20 mL
Shipping Condition	Dry Ice
Unit Size	20 mL

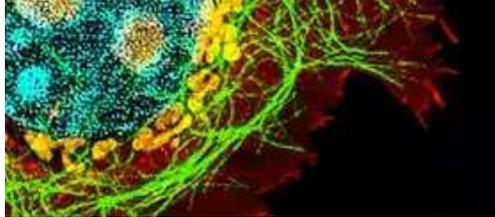
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Shelf life: 12 months from date of manufacture



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Frequently asked questions (FAQs)

How can I decontaminate my cultures?



Can I add antibiotics to OptiPRO SFM?



Should I directly add 5 mL of Antibiotic-Antimycotic (100X) to 500 mL cell culture medium or should I dilute the Antibiotic-Antimycotic (100X) 100 times and then add 5 ml of the diluted Antibiotic-Antimycotic to 500 ml of cell culture medium?



What antibiotics do you offer to help control or eliminate cell culture contamination?



What is the recommended storage condition for Antibiotic-Antimycotic (100X)?



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Citations & References

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[enzyme deoxyguanosine kinase. !\[\]\(3ed0acf11da639d07b94a2fc7bf3fdce_img.jpg\)](#)

Authors: JÃ¼llig M, Eriksson S,

Journal: J Biol Chem

PubMed ID: 11294860

deoxynucleosides in mitochondria and is a key enzyme in mitochondrial DNA precursor synthesis. The active form of the enzyme is a 60-kDa protein normally located in the mitochondrial matrix. Here we describe the subcellular distribution of dGK during apoptosis in human epithelial ... [More](#)

[Hypoxia and Nitric Oxide Treatment Confer Tolerance to Glucose Starvation in a 5'-AMP-activated Protein Kinase-dependent Manner. !\[\]\(5dde34428c983347b8bd1ad46ab8268e_img.jpg\)](#)

Authors: Esumi Hiroyasu; Izuishi Kunihiro; Kato Kazuyoshi; Hashimoto Koichi; Kurashima Yukiko; Kishimoto Atsuhiro; Ogura Tsutomu; Ozawa Takayuki;

Journal: J Biol Chem

PubMed ID: 12091379

Hypoxia is a critical event for higher organisms, and cells and tissues react by increasing the oxygen supply by vasodilatation, angiogenesis, and erythropoiesis and maintaining cellular energy by increasing glycolysis and inhibiting anabolic pathways. Stimulation of glycolysis has been regarded as the main response that increases energy production during hypoxia; ... [More](#)

[PNA Telomere and Centromere FISH Staining for Accurate Analysis of Radiation-Induced Chromosomal Aberrations. !\[\]\(0769714a3e81adc7f45a68d9d2f22725_img.jpg\)](#)

Authors: Cartwright IM, Haskins JS, Kato TA

Journal: Methods Mol Biol

PubMed ID: 31267424

Dicentric and centric ring chromosomes are used for radiation-induced damage analysis and biodosimetry after radiation exposure. However, Giemsa stain-based cytogenetic analysis is labor-intensive and time-consuming. Moreover, the disadvantage of Giemsa based chromosome analysis is a potential poor reproducibility when researchers are not fully trained for analysis. These problems come from ... [More](#)

[Metabolic stress activates an ERK/hnRNP/DDX3X pathway in pancreatic \$\beta\$ cells. !\[\]\(30291ca2e0ca9e56cc7ba60d39ed6365_img.jpg\)](#)

Authors: Good AL, Haemmerle MW, Oguh AU, Doliba NM, Stoffers DA

Journal: Mol Metab

PubMed ID: 31178390

Pancreatic β cell failure plays a central role in the development of type 2 diabetes (T2D). While the transcription factors shaping the β cell gene expression program have received much attention, the post-transcriptional controls that are activated in β cells during stress are largely unknown. We recently identified JUND as ... [More](#)

[Identification of retinoid acid induced 16 as a novel androgen receptor target in prostate cancer cells. !\[\]\(4c5cc3eca2bed97f952a6d702fb39ffc_img.jpg\)](#)

Authors: Ding CL, Qian CL, Qi ZT, Wang W

Journal: Mol Cell Endocrinol

PubMed ID: 32014455

Retinoid acid induced 16 (RAI16) was reported to enhance tumorigenesis in hepatocellular carcinoma (HCC). The androgen receptor (AR) is a nuclear hormone receptor that functions as a critical oncogene in several cancer progressions. However, whether RAI16 is a candidate AR target gene that may involve in prostate cancer progression was ... [More](#)

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