



# 20% Off Select Microbiology Antibiotics!



## ABOUT TOKU-E COMPANY

TOKU-E Company is an ISO 9001:2008 certified company with over 25 years of experience and expertise in antimicrobial fermentation, manufacturing, and purification technologies. TOKU-E Company is a primary manufacturer of research antimicrobials for use in numerous *in vitro* applications including eukaryotic cell culture, microbiology, plant biology, virology, and cancer research. As a global supplier to scientists and notable life science companies, TOKU-E Company is committed to manufacturing antimicrobials of the highest quality and consistency to facilitate reproducible and meaningful research around the world.

## ANTIMICROBIALS IN MICROBIOLOGY

Antibiotics are routinely used in microbiology culture media as selective agents to help isolate clinically significant pathogens from foods or clinical specimens containing high numbers of clinically insignificant microorganisms. In addition to their diagnostic utility, antibiotics are also used as gene selection agents to select for prokaryotic cells that have been transformed with a plasmid containing a gene that confers resistance to a specific selection antibiotic.

For protocols, applications, and a complete list of microbiology antibiotics, visit [www.TOKU-E.com](http://www.TOKU-E.com).

**Click any listed product below for more information!**

\*Offer valid until 2/28/17

# SELECTIVE AGENTS



## Amphotericin B

Amphotericin B is a polyene antimycotic compound used in several selective culture media formulations to inhibit the growth of fungal contaminants.

- [Amphotericin B, EP \(A064\)](#)
- [Amphotericin B, USP \(A007\)](#)
- [Amphotericin B solubilized \(A008\)](#)



## Colistin

Colistin is a polypeptide antibiotic, and is used to inhibit the growth of background Gram-negative bacteria on selective media.

- [Colistin sulfate \(C083\)](#)
- [Colistin sodium methanesulfonate \(C073\)](#)



## Cycloheximide

Cycloheximide is an antimycotic protein synthesis inhibitor, and is used in most selective media formulations to inhibit the growth of fungal contaminants.

- [Cycloheximide \(C001\)](#)
- [Cycloheximide UltraPure \(C071\)](#)
- [Cycloheximide solution \(C084\)](#)



## Nalidixic acid

Nalidixic acid is a quinolone-like antibiotic, and is active against Gram-negative bacteria. Nalidixic acid is used in several selective media formulations to inhibit background contaminant growth of Gram-negative bacteria.

- [Nalidixic acid \(N011\)](#)
- [Nalidixic acid sodium \(N001\)](#)



## Polymyxin B sulfate

Polymyxin B sulfate is a cyclic polypeptide antibiotic, and is used in several types of selective media to inhibit background contaminant growth of Gram-negative bacteria.

- [Polymyxin B sulfate \(P007\)](#)



## Vancomycin

Vancomycin is a bactericidal glycopeptide antibiotic, and is primarily active against Gram-positive bacteria including MRSA and MRSE. Vancomycin is used in most selective media formulations to inhibit background contaminant growth of Gram-positive bacteria.

- [Vancomycin \(V010\)](#)
- [Vancomycin HCl, USP \(V001\)](#)
- [Vancomycin HCl UltraPure \(V007\)](#)

# GENE SELECTION



## Ampicillin

Ampicillin is a beta-lactam antibiotic that is often used to select for cells that have been transformed with a plasmid containing the *ampR* gene which confers resistance to ampicillin.

- [Ampicillin sodium \(A042\)](#)
- [Ampicillin trihydrate, USP \(A009\)](#)
- [Ampicillin trihydrate, EP \(A020\)](#)
- [Ampicillin anhydrous \(A043\)](#)



## Carbenicillin disodium

Carbenicillin disodium is a beta-lactam antibiotic that is often used to select for cells that have been transformed with a plasmid containing the *ampR* gene which confers resistance to ampicillin and carbenicillin.

- [Carbenicillin disodium, USP \(C126\)](#)
- [Carbenicillin disodium, UltraPure \(C107\)](#)



## Chloramphenicol, USP

Chloramphenicol (C028) is an amphenicol antibiotic, and is used to select for transformed cells that express the chloramphenicol resistance gene, *cat* from a resistance plasmid.

- [Chloramphenicol, USP \(C028\)](#)



## Kanamycin

Kanamycin sulfate is an aminoglycoside antibiotic, and is often used as a selective agent to isolate cells that have been successfully transformed with plasmids containing the kanamycin resistance gene, *kan<sup>r</sup>*.

- [Kanamycin sulfate, USP \(K008\)](#)
- [Kanamycin acid sulfate \(K004\)](#)



## Tetracycline

Tetracycline is a polyketide antibiotic, and is commonly used to select for bacterial cells that have been transformed with a plasmid that contains the tetracycline resistance gene, *tet*.

- [Tetracycline, USP \(T051\)](#)
- [Tetracycline, EP \(T016\)](#)
- [Tetracycline HCl \(T004\)](#)

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