

# LAC|BUSTER™

➤ Stable ➤ Broad spectrum ➤ High performing



## NEW FIRST-IN-CLASS BETA-LACTAMASE for

- Beta-Lactam antibiotic sterility testing
- Environmental monitoring

## INACTIVATES A BROAD RANGE OF BETA-LACTAM ANTIBIOTICS

- Significantly higher activity  
against clinically important Beta-Lactams

# Available LacBuster™ formulations



**EUCODIS** manufactures and delivers pure, high-quality, high-performing products.

**LacBuster™** has been optimized for sterility testing and environmental monitoring in the manufacture and dosage formulation of beta-lactam antibiotics.

**LacBuster™-S** is a solid formulation with a broad substrate range against clinically relevant beta-lactam antibiotics including carbapenems, cephalosporins up to 5<sup>th</sup> generation and penicillins.

**LacBuster™-S** is available as a freeze-dried gamma-irradiated powder.



**LacBuster™-L** is a novel sterile ready-to-use solution. Due to its high performance **LacBuster™-L** is especially well suited for the **direct inoculation method** and **membrane filtration** tests according to US Pharmacopeia (USP <71>) and European Pharmacopeia (EP <2.6.1>). It can be directly implemented into existing standard.

**NEW**



## LacBuster™ Agar Plates for environmental monitoring

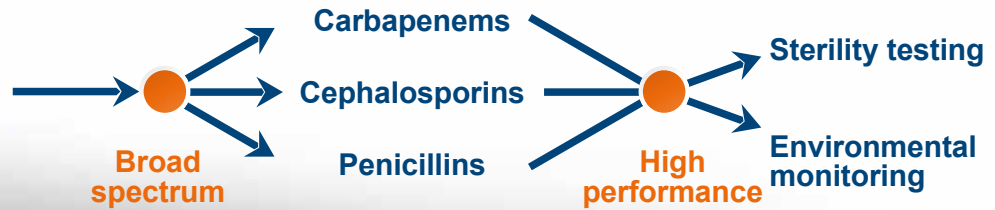
Available as contact and settle plates for high performance monitoring of your isolators and clean rooms during beta lactam manufacture.

Why use LacBuster™ media plates?

- High enzymatic activity of 1.000 IU Cephalosporinase and 10.000 IU Penase per litre medium
- Optimized formulation: Supplemented with neutralizers for all commonly used disinfectants
- H<sub>2</sub>O<sub>2</sub>-impermeable triple-sleeve packaging, gamma-irradiated
- Long shelf life: 6 months
- Convenient storage at room temperature
- Perfect price for value

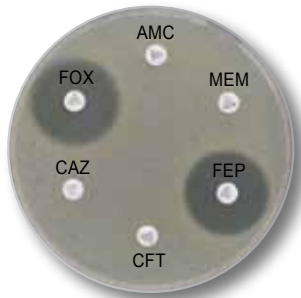
Sterility Tests	Catalogue #	Formulation	Sales Unit (IU β-Lactamase II)	Enzymatic Activity
LacBuster - L	EB008.1	Sterile liquid	10 x 1000 IU (10 ml)	β-Lactamase I & β-Lactamase II
LacBuster - S	EB006.1	Sterile freeze dried powder, gamma irradiated	10 x 50 IU	β-Lactamase I & β-Lactamase II
LacBuster- S	EB006.2		1x 2000 IU	
Penase	EB002.1	Freeze dried powder	1 x 3300 IU	β-Lactamase I
Environmental monitoring	Catalogue #	Formulation	Sales Unit	Enzymatic Activity
<b>NEW!</b> LacBuster - Settle plates	EB010.1	Agar Plates	10	10.000 IU/L (β-Lactamase I)
<b>NEW!</b> LacBuster - Contact plates	EB011.1		10	1.000 IU/L (β-Lactamase II)

# Product Highlights

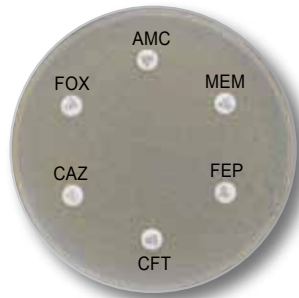


## LacBuster™ inactivates clinical relevant cephalosporins better than any other product available on the market

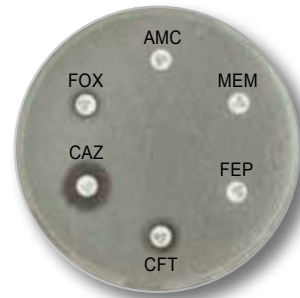
Competitor A



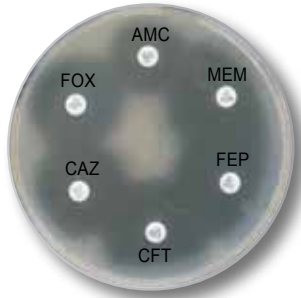
LacBuster™-S



Competitor B



No enzyme



Agar diffusion test on CASO agar containing 500 IU beta-lactamase II/-L medium of indicated enzyme, using a commonly used bacterial indicator strain, like *S. aureus* ATCC6538, as a test microorganism.

Antibiotics discs used: AMC – Amoxicillin/Clavulnate (20/10 µg), MEM – Meropenem (10 µg), FEP – Cefepime (30 µg), CFT – Ceftibuten (30 µg), CAZ – Ceftazidime (10 µg), FOX – Cefoxitin (30 µg).

LacBuster™ has been demonstrated to inactivate following beta-lactam antibiotics efficiently:

### Cephalosporins:

Cefaclor, Cefadroxil, Cefazolin, Cefepime, Cefixime, Cefotaxime, Cefoxitin, Cefpodoxime, Ceftazidime, Ceftibuten, Ceftriaxon, Cefuroxime, Cephalexin

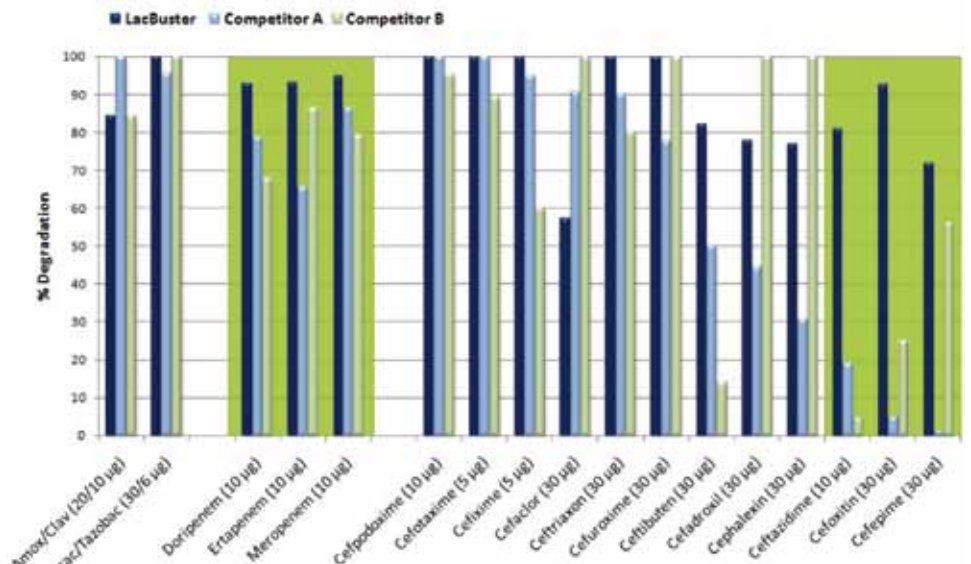
### Carbapenems:

Doripenem, Ertapenem, Imipenem, Meropenem

### Penicillins:

Amoxicillin, Ampicillin, Benzylpenicillin, Oxacillin, Piperacillin, Ticarcillin

## LacBuster™: shows a superior activity profile on a broad range of carbapenems, cephalosporins and penicillins



Agar diffusion test on Mueller-Hinton agar plates containing 50 IU beta-lactamase II activity/L (LacBuster™-S).

# EXPERTISE IN INDUSTRIAL ENZYME MANUFACTURING



## About EUCODIS Bioscience

**EUCODIS Bioscience** is an application-driven **enzyme engineering and manufacturing company** with a portfolio of over 50 enzymes including beta-lactamases, lipases, peroxidases and others used by customers in the pharmaceutical, biotechnology, diagnostics, and other industries. Our team works closely with our customers to better understand and meet their individual needs.

**EUCODIS Bioscience** also provides various **custom protein & enzyme services** according to ISO 9001 standards ranging from protein & enzyme engineering, bioprocess development to routine protein manufacturing.