ORIGIN ID: VDDA 00431890080413 ORIGIN ID: VDDA 0043189008041.
VANESSA FEUERER
EUCODIS BIOSCIENCE GMBH
CAMPUS VIENNA BIOCENTER II
VIEHMARKTGASSE 2A
WIEN, 1030
AUSTRIA, AT

Ship Date: 03JUN19 ActWgt: 2.00 KG MAN CAD: 6159141/GSMW1059

Dims: 23x23x23 CM BILL SENDER EINVAT:

TO KERI SMITH

ARL BIO PHARMA, INC D.B.A. ANALYTICAL RESEARCH LABORATO 840 RESEARCH PARKWAY, SUITE 546 **OKLAHOMA CITY, OK 73104**

(405) 271-1144

(US)





XH OKCA

PKG TYPE: CUSTOMER

TRK# 6740 7792 5534

Form 0430

INTL PRIORITY

REF: 20190065 34 DESC1:beta-lactamase, sterile liquid, ready-to-use DESC2: DESC3: DESC4:

COUNTRY MFG: AT CARRIAGE VALUE: 0.00 EUR CUSTOMS VALUE: 4170.00 EUR

SIGN: VANESSA FEUERER T/C: S 397082164 D/T: R

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EUCODIS Bioscience GmbH Campus Vienna Biocenter 2 Viehmarktgasse 2a, 1030 Wien, Austria Tel: +43 1 8900804-10 Fax: +43 1 8900804-11 www.eucodis.com

INVOICE ADDRESS

ARL Bio Pharma, Inc

d.b.a. Analytical Research Laboratories 840 Research Parkway, Suite 546 Oklahoma City, OK 73104

USA

DELIVERY ADDRESS

ARL Bio Pharma, Inc.

d.b.a. Analytical Research Laboratories 840 Research Parkway, Suite 546

Oklahoma City, OK 73104

USA

To the attention of:

Keri Smith

Your Order Number:

27597

Our Offer:

20190009

Your Order Date:

28 May 2019

Order Confirmation Date:

29 May 2019 20190060

Customer VAT ID: Customer Code:

201006

Our Order Confirmation:
Our EORI Number:

ATEOS1000013742

PROFORMA INVOICE for Order # 20190060

LacBuster[™]-L, 10 ml

Pos No.	Product ID	Product Name	Quantity	Unit Price EUR	Total Price EUR
1	EB008.1	LacBuster [™] -L, liquid sterile, 10ml (1000 IU beta lactamase II/vial)	10	€ 417	€ 4,170
2	n.a.	Shipping costs	1	€ 140	€ 140
Subtot	al				€ 4,310
VAT (0%), Supply, Export					
TOTAL					€ 4,310

FedEx tracking number:

674077925534

Customs tariff number:

35079090

Manufacturer:

EUCODIS Bioscience GmbH, Viehmarktgasse 2a, 1030 Vienna, Austria

Country of origin:

Austria

Secondary condition:

EXW Vienna (Incoterms 2010)

Customs clearance costs and import taxes not included.

With kind regards

Dr. Susanne Bach



EUCODIS Bioscience GmbH Campus Vienna Biocenter 2 Viehmarktgasse 2a, 1030 Wien, Austria Tel: +43 1 8900804-10 Fax: +43 1 8900804-11 www.eucodis.com

INVOICE ADDRESS

ARL Bio Pharma, Inc

d.b.a. Analytical Research Laboratories 840 Research Parkway, Suite 546 Oklahoma City, OK 73104 USA **DELIVERY ADDRESS**

ARL Bio Pharma, Inc

d.b.a. Analytical Research Laboratories 840 Research Parkway, Suite 546 Oklahoma City, OK 73104 USA

To the attention of:

Keri Smith

Our Offer:

20190009

Order Confirmation Date:

29 May 2019

Our Order Confirmation:

20190060

Our EORI Number:

ATEOS1000013742

Your Order Number:

27597 28 May 2019

Your Order Date: Customer VAT ID:

Customer Code:

201006

DELIVERY NOTE # 20190065

LacBuster[™]-L, 10 ml

Shipping Date:

Vienna, 03 June 2019

Number of Packs:

1

Shipment:

FedEx

Tracking number: 674077925534

Dispatch Control:

Jennifer Lehrmann (lehrmann@eucodis.com)

Pos No.	Product ID	Product Name	Quantity
		LacBuster [™] -L, liquid sterile, 10ml	10
1 EB00	EB008.1	(1000 IU beta lactamase II/vial)	

Comments:

Store at 2-8°C



EUCODIS Bioscience GmbH Campus Vienna Biocenter II Viehmarktgasse 2a 1030 Wien, Austria

Phone: +43 1 8900804-10 Fax: +43 1 8900804-11 e-mail:office@eucodis.com web: www.eucodis.com

FOR REVIEW by USDA Inspector

Vienna, 2019-06-03

Declaration of Goods according to USDA APHIS Guideline #1114

We confirm hereby that

- 1. the goods contained in this shipment consist of purified proteins (enzymes) produced by recombinant microorganisms (*Escherichia coli, Pichia pastoris, Aspergillus oryzae, Streptomyces lividans*), and buffer salts,
- 2. the goods contained in this shipment are non-toxic, non-hazardous, non-infectious, free of host and plasmid DNA,
- 3. all expression vectors used for production are NOT pathogenic for livestock or avian species AND the host organisms do NOT contain any genes or express antigens of livestock or poultry disease agents,
- 4. the goods contained in this shipment do NOT contain any animal derived additives,
- 5. the goods contained in this shipment are produced under animal-free conditions, meaning all raw materials and media used are NOT from animal origin,
- 6. the goods contained in this shipment are for in vitro use only.

With kind regards

Dr. Jan Modregger

Head of Research and Development,

Head of Production



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office@eucodis.com

- To whom it may concern -

MANUFACTURER DECLARATION

EUCODIS LacBuster[™]-L (beta-lactamase)

Applies to Product No.'s EB008.1

EUCODIS LacBusterTM-L is a preparation of recombinant beta-lactamase enzyme of microbial origin and contains only the polypeptide of the beta-lactamase in a sterile solution containing potassium phosphate buffer.

The preparation of LacBuster[™]-L is therefore non-toxic, non-hazardous, and non-infectious and does not contain any material from animal origin.

Beta-lactamases are highly specific enzymes which can be used for the inactivation of beta-lactam antibiotics for sterility tests and environmental monitoring during the production of beta-lactam antibiotics. To the best of our knowledge there is no secondary use application for beta lactamases according to council regulation EC 428/2009.

EUCODIS LacBuster[™]-L is intended for research and quality control purposes only, not for use in humans.

Identifier	EB008.1 , recombinant microbial beta-lactamase of microbial origin <i>CAS 9073-60-3, EC 3.5.2.6</i>		
Composition	Polypeptide of beta lactamase, potassium phosphate, sodium chloride, sterile liquid , pH of the solution: 7.0		
Hazards Identification	Non-toxic, non-hazardous, and non-infectious and do not contain any material from animal origin. See also attached MSDS.		
Country Origin	Austria		
Usage	Inactivation of beta-lactam antibiotics for quality control and environmental monitoring.		
Disposal	According to federal, state, and local environmental regulations.		

The above data have been compiled to the best of our knowledge on the basis of thorough tests and with regard to our own and current state of the art experience.

EUCODIS Bioscience GmbH Dr. Jan Modregger Head of Research and Development

Data Sheet



Cat. No. Formulation Sales Unit Activity/vial

EB008.1 Sterile liquid, ready-to-use 10 x 10 ml $\stackrel{>}{\sim}$ 2500 IU β I $\stackrel{>}{\sim}$ 1000 IU β II

Specifications

LacBuster™-L is a novel β-lactamase formulation with a broad substrate range against β-lactam antibiotics including carbapenems, cephalosporins up to 5th generation and penicillins. **LacBuster™-L** is available as a ready-to-use sterile solution.

Unit Definition

One International unit of βI activity (Penicillinase) will hydrolyze 1.0 μ mole benzylpenicillin per minute at pH 7.0 and 25°C. One IU βI corresponds to 600 Levy units or 100.000 Kersey Units, respectively.

One International unit of β II activity (Cephalosporinase) will hydrolyze 1.0 μ mole cephalosporin C per minute at pH 7.0 and 25°C.

Applications

LacBusterTM-L can be applied for sterility testing of β-lactam antibiotics according to US and European Pharmacopeia. Due to its high activity **LacBusterTM-L** is especially well suited for the direct inoculation method but can be used as well for membrane filtration tests. It can be easily incorporated into existing standard operating procedures by addition of the provided sterile enzyme solution to all buffers and media.

To validate complete inactivation of the β -lactam a challenge test (using less than 100 colony-forming units of *Staphylococcus aureus* ATCC 6538 or *Bacillus subtilis* ATCC 6633) with an appropriate quantity of enzyme has to be performed under the custom specific settings. Please refer to our application specialists for further advice.

Further applications include environmental monitoring of manufacturing areas and sterility testing of blood cultures.

For preparation of agar plates, LacBuster™-L is added to the medium at a temperature of ≤ 50°C.

Sterility

LacBuster™-L vials are filled under aseptic conditions. No growth in Tryptic Soy broth is observed after incubation at 30-35°C for 14 days.

Storage/Stability

LacBuster™-L is stable at 2-8°C for at least one year from the date of manufacturing.
At room temperature (15-25°C) LacBuster™-L is

stable for at least one month.

Substrate Range

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

Carbapenems: Doripenem, Ertapenem, Imipenem, Meropenem

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

Penicillins: Amoxicillin, Ampicillin, Benzylpenicillin, Cloxacillin, Nafcillin, Oxacillin, Piperacillin, Ticarcillin

For in vitro use only.



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Phone: +43 (0)-1-8900804-10 Fax: +43 (0)-1-8900804-11 E-mail: office@eucodis.com

CERTIFICATE OF ANALYSIS

Product

LacBuster[™]-L

Source

Prokaryotic

Host

Escherichia coli

Product number

EB008.1

Lot number

02610119LF0515

Date of analysis

May 20th, 2019

Shelf life

12 months from date of analysis

Storage temperature

2-8°C

Results of Analysis

Appearance: clear yellowish liquid

Activity: 328 I.U./mL (beta lactamase I)

156 I.U./mL (beta lactamase II)

One International Unit (I.U.) of beta lactamase I activity will hydrolyze 1.0 µmole benzylpenicillin per minute in phosphate buffer, pH 7.0 at 25°C. One I.U. is equivalent to 600 Levy units.

One International Unit (I.U.) of beta lactamase II activity will hydrolyze 1.0 µmole cephalosporin C per minute in phosphate buffer, pH 7.0 at 25°C.

We hereby certify that the above information is true and correct.

EUCOPIS Bioscience GmbH

Bioscience GmbH
Campus Vienna Biocenter II
Viehmarktgass 2a

1030 Wien, Österleich Tel.: +43 1 890 05 04 www.eucodis.com

Dr. Axel Niebisch Project Leader **EUCÓDIS** BIOISCIENCE

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Revision Date 07.09.2010 Print Date 07.09.2010

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Name:

EUCODIS LacBuster $^{\text{TM}}$ -L, microbial , recombinant from E. coli

Product Number:

EB008

Company:

Eucodis Bioscience GmbH Campus Vienna Biocenter II Viehmarktgasse 2 a/ 2. OG A-1030 Vienna AUSTRIA

Telephone:

+43 (0)-1-8900804-10

Fax:

+43 (0)-1-8900804-11 +43 (0)-1-8900804-10

Emergency Phone: Email:

office@eucodis.com

2. Hazards Identification

Classification of the substance or mixture

Not a dangerous substance according to GHS.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements

Caution - substance not yet tested completely.

Other hazards - none

3. Composition/Information on Ingredients

CAS-No.	EC-No.	Index-No	Classification	Concentration
beta lactamas	9			
	3.5.2.6.			< 1%
potassium phosphate, monobasic				. 50/
7778-77-0				< 5%
sodium chloride				
7647-14-5				< 5%

4. First Aid Measurements

General

No general measures necessary.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Safety data

6.0 - 7.0pΗ

no data available Melting point no data available **Boiling point** no data available Flash point Ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available

soluble Water solubility

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid

Heat.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

TOXIC SUBSTANCE CONTROL ACT (TSCA) CERTIFICATION

DATE:	3rd June 2019				
	(CHECK ONE SECTION ONLY)				
	POSITIVE CERTIFICATION:				
	"I CERTIFY THAT ALL CHEMICAL SUBSTANCES IN THIS SHIPMENT COMPLY WITH ALL APPLICABLE RULES OR ORDERS UNDER TSCA AND THAT I AM NOT OFFERING A CHEMICAL SUBSTANCE FOR ENTRY IN VIOLATION OF TSCA OR ANY APPLICABLE RULE OR ORDER THEREUNDER."				
	- OR -				
	NEGATIVE CERTIFICATION:				
	"I CERTIFY THAT ALL CHEMICALS IN THIS SHIPMENT ARE NOT SUBJECT TO TSCA."				
COMPA	NY NAME: Eucodis Bioscience				
COMPA	NY ADDRESS: Viehmarktgasse 2a/2.OG 1030 Wien, Austria				
	RIZED NAME: Jan Modregger, PhD Bioscience GmbH				
AUTHO	Vietmaktgasse 2a 1030 Wcoll Exercise Tal. 43 1 80 7 04				
TITLE:	Head of Research & Development www.eucogle.com				
FEDER	AL EXPRESS AWB#: 674077924939				
RETUR	N TO:				
IF TH	E CERTIFIER IS UNSURE IF THEIR CHEMICAL SUBSTANCE IS CT TO TSCA COMPLIANCE, CONTACT THE ENVIRONMENTAL				

PROTECTION AGENCY, TSCA ASSISTANCE OFFICE, WASHINGTON, D.C. (202) 554-1404 BETWEEN 8:30 AM AND 5:00 PM EST.

REVISED May 7, 1990