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

Dims: 23x23x23 CM BILL SENDER EINVAT:

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

AWB

XH OKCA

PKG TYPE: CUSTOMER

Form 0430

INTL PRIORITY

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

SIGN: VANESSA FEUERER 17C: S 397082164 D/T: R

For all commodities, lechnology or software previously exported from the United States, this was done in excordance with the Export Administration Requisitions. Diversion of these items contrary to U.S. law or any other applicable country's law is profublied, and the soft as well so that the soft as well so that the soft as well as the soft COUNTRY MFG: AT CARRIAGE VALUE: 0.00 EUR CUSTOMS VALUE: 4170.00 EUR

FEDEX AWB COPY - PLEASE PLACE IN POUCH

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To Place label in shipping pouch and affix it to your shipment.

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

TO KERI SMITH

(405) 271-1144



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

ATEOS1000013742 d.b.a. Analytical Research Laboratories 29 May 2019 20190060 20190009 840 Research Parkway, Suite 546 Oklahoma City, OK 73104 **Order Confirmation Date:** Our Order Confirmation: ARL Bio Pharma, Inc To the attention of: **Our EORI Number: DELIVERY ADDRESS** Keri Smith Our Offer: d.b.a. Analytical Research Laboratories 28 May 2019 840 Research Parkway, Suite 546 201006 27597 Oklahoma City, OK 73104 ARL Bio Pharma, Inc Your Order Number: Customer VAT ID: INVOICE ADDRESS Your Order Date: **Customer Code:**

PROFORMA INVOICE for Order # 20190060

LacBusterTM-L, 10 ml

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

674077925534 FedEx tracking number:

35079090 **Customs tariff number**

Manufacturer:

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

Austria Country of origin:

EXW Vienna (Incoterms 2010) Secondary condition: Customs clearance costs and import taxes not included.

With kind regards

Dr. Susanne Bach

J. bad



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

20190009 Our Offer:

29 May 2019 20190060 Order Confirmation Date: Our Order Confirmation:

28 May 2019

27597

Your Order Number:

Customer VAT ID: Your Order Date:

Customer Code:

201006

ATEOS1000013742 **Our EOR! Number:**

DELIVERY NOTE # 20190065

LacBusterTM-L, 10 ml

Vienna, 03 June 2019 Shipping Date:

Number of Packs:

Shipment:

Tracking number: 674077925534

Jennifer Lehrmann (<u>Jehrmann@eucodis.com</u>) Dispatch Control:

Product Name Product ID Pos. Š

Quantity

10

LacBusterTM-L, liquid sterile, 10ml (1000 IU beta lactamase II/vial) EB008.1

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

- 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,
- the goods contained in this shipment are non-toxic, non-hazardous, non-infectious, free of host and plasmid DNA, ď
- 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 ivestock or poultry disease agents, က
- the goods contained in this shipment do NOT contain any animal derived additives, 4
- the goods contained in this shipment are produced under animal-free conditions, meaning all raw materials and media used are NOT from animal origin, Ś.
- the goods contained in this shipment are for in vitro use only. ဖ

With kind regards

Dr. Jan Modregger Head of Research and Development,



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

office@eucodis.com

- To whom it may concern -

MANUFACTURER DECLARATION

EUCODIS LacBusterTM-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 noninfectious 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 LacBusterTM-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 CAS 9073-60-3, EC 3.5.2.6
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

www.eucodis.com

Data Sheet



LacBuster-L

Cat. No. Formulation Sales Unit Activity/vial

EB008.1 Sterile liquid, $10 \times 10 \text{ ml}$ > 2500 IU β I ready-to-use

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.

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 β 1 activity (Penicillinase) will hydrolyze 1.0 µmole benzylpenicillin per minute at pH 7.0 and 25°C. One IU β 1 corresponds to 600 Levy units or 100.000 Kersey Units, respectively.

One International unit of βII activity (Cephalosporinase) will hydrolyze 1.0 μmole cephalosporin C per minute at pH 7.0 and 25°C.

Applications

LacBuster TM-L can be applied for sterility testing of β-lactam antibiotics according to US and European Pharmacopeia. Due to its high activity LacBuster TM-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.

Sterility

LacBusterTM-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

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

Substrate Range

 $\textbf{LacBuster}^{\text{TM}}\textbf{-L} \quad \text{has} \quad \text{been} \quad \text{demonstrated} \quad \text{to} \quad \text{inactivate following } \beta\text{-lactam antibiotics efficiently:}$

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.



Viehmarktgasse 2 a 1030 Vienna AUSTRIA Eucodis Bioscience GmbH Campus Vienna Biocenter

Phone: +43 (0)-1-8900804-10 Fax: +43 (0)-1-8900804-11

E-mail: office@eucodis.com

CERTIFICATE OF ANALYSIS

LacBusterTM-L Prokaryotic **Product** Source

Escherichia coli EB008.1 Product number Host

12 months from date of analysis 02610119LF0515 May 20th, 2019 Date of analysis Lot number

2-8°C

Storage temperature

Shelf life

Results of Analysis

Appearance: clear yellowish liquid

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

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.

EUCOPISAdis Bioscience GmbH

Viehmarktgassøl2a 1030 Wien, Österreich Tel.: +43 1 880 08 odl www.eucodis.com Bioscience Cambly Bioscience Biocenter II

Dr. Axel Niebisch Project Leader

www.eucodis.com

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

EUCODIS LacBusterTM-L, microbial , recombinant from E. coli EB008 Product Name: Product Number:

Eucodis Bioscience GmbH Company:

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

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

office@eucodis.com Emergency Phone: Email:

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

				Contraction
CAS-No.	EC-No.	Index-No	Classification Coricerification	COLICEINIANON
Coomotoo oto				
Deta lactalliase				707
	3,5,2.6.			×1%
potassium				
phosphate,				
monohasic				
7770 77 0		1	1	< 5%
0-11-8/11				
sodium				
chloride	_			
1011 44 5			•	< 5%
1047-14-5				

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

www.eucodis.com

Safety data

no data available - 7.0 soluble 6.0 Upper explosion limit Lower explosion limit Ignition temperature Melting point **Boiling point** Flash point

10. STABILITY AND REACTIVITY Water solubility

Storage stability
Stable under recommended storage conditions.

Conditions to avoid

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

no data available

Aspiration hazard

Potential health effects

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

NCE CONTROL	CERTIFICATION		N ONLY)
OXIC SUBSTANCE CONTR	CE	3rd June 2019	(CHECK ONE SECTION ONLY)
		DATE:	

POSITIVE CERTIFICATION:

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 "I CERTIFY THAT ALL CHEMICAL SUBSTANCES IN ORDER THEREUNDER." ×

OR.

NEGATIVE CERTIFICATION:

RTIFY THAT ALL CHEMICALS IN THIS SHIPMENT	ARE NOT SUBJECT TO TSCA."
HAT	IECI
YT	SUB
TIF	LC
CERTII	X
"I CE	AR

COMPANY NAME: E	Eucodis Bioscience
OMPANY ADDRESS:	COMPANY ADDRESS: Viehmarktgasse 2a/2.OG 1030 Wien, Austria
TITHORIZED NAME:	EUCODIS ATTHORIZED NAME: Jan Modregger, PhD Bioscience GmbH
EAN OIS GEREN CITETI	Vietmarkigasse 2a Vietmarkigas
TITIE. Head of Research & Development	rch & Development www.eucogk.com
REDERAL EXPRESS AWB#:	VB#: 674077924939
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SUBJECT 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