

Safety Data Sheet  
according to 1907/2006/EC, Article 31



Revised 01.02.2017

Printed 01.02.2017

Trade name:            RTS 500 E. coli Disulfide Kit

Catalog Number:    BR1400501

This kit consists of 8 components:

Component code	Description
K00232	E. coli Lysate
K00233	Reaction Mix
K00234	Amino Acids
K00235	Methionine
K00236	Lysate Activator
K00237	Feeding Mix
K00239	RNase-DNase-free Water
K00238	Control Vector UK

**Manufacturer/Supplier:**

biotechrabbit GmbH  
Neuendorfstr. 24a  
16761 Hennigsdorf  
Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)  
[www.biotechrabbit.com](http://www.biotechrabbit.com)

## **E. coli Lysate**

(K00232)

### **Manufacturer/Supplier:**

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## Reaction Mix

(K00233)

### Manufacturer/Supplier:

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## Amino Acids

(K00234)

### Manufacturer/Supplier:

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## Methionine

(K00235)

### Manufacturer/Supplier:

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Lysate Activator (K00236)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

Application of the substance / the preparation: Laboratory chemicals

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: info@biotechrabbit.com

www.biotechrabbit.com

Further information obtainable from: biotechrabbit GmbH

#### 1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 551 19240

24h / 7d

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture:

##### Classification according to Regulation (EC) No 1272/2008:

The product is not classified according to the CLP regulation.

#### 2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

#### 2.3 Other hazards:

##### Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

### 3 Composition/information on ingredients

#### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

##### Dangerous components:

CAS: 144-48-9      2-iodoacetamide

0.3-<1%

EINECS: 205-630-1      Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330

Additional information: For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

#### 4.1 Description of first aid measures:

##### General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

---

**Trade name: Lysate Activator (K00236)**

---

(Contd. of page 1)

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:** Call a doctor immediately.**4.2 Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

---

### 5 Firefighting measures

**5.1 Extinguishing media:****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

---

### 6 Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation

Wear protective clothing.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

---

### 7 Handling and storage

**7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

**Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from foodstuffs.

**Further information about storage conditions:** Keep container tightly sealed.**7.3 Specific end use(s):** No further relevant information available.

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

Trade name: Lysate Activator (K00236)

(Contd. of page 2)

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### 8.2 Exposure controls:

#### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Protection of hands:** Protective gloves

#### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### General Information:

#### Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

#### Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable.

#### Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

#### Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

(Contd. on page 4)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

Trade name: Lysate Activator (K00236)

(Contd. of page 3)

<b>Vapour pressure at 20 °C:</b>	23 hPa
<b>Density:</b>	Not determined.
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Soluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>9.2 Other information:</b>	No further relevant information available.

## 10 Stability and reactivity

**10.1 Reactivity:** No further relevant information available.

**10.2 Chemical stability:**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

**11.1 Information on toxicological effects:**

**Acute toxicity**

**Primary irritant effect:**

**Skin corrosion/irritation** Irritant to skin and mucous membranes.

**Serious eye damage/irritation** Irritating effect.

**Respiratory or skin sensitisation** No sensitising effects known.

## 12 Ecological information

**12.1 Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

Trade name: Lysate Activator (K00236)

(Contd. of page 4)

### 13 Disposal considerations

**13.1 Waste treatment methods:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

**14.1 UN-Number:**

ADR, ADN, IMDG, IATA Void

**14.2 UN proper shipping name:**

ADR, ADN, IMDG, IATA Void

**14.3 Transport hazard class(es):**

ADR, ADN, IMDG, IATA

Class: Void

**14.4 Packing group:**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Not applicable.**14.7 Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code** Not applicable.**UN "Model Regulation":** -

### 15 Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases:**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H330 Fatal if inhaled.

**Department issuing MSDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

Fax. +49 (0) 202 2575701

Email: mail@adeego.de

www.adeego.de

**Contact:** Dr. Axel Deeg

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 14.07.2015

Version number 1

Revision: 14.07.2015

---

**Trade name: Lysate Activator (K00236)**

---

(Contd. of page 5)

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 2: Acute toxicity, Hazard Category 2

---

## Feeding Mix

(K00237)

### Manufacturer/Supplier:

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## **RNase-DNase-free Water**

(K00239)

### **Manufacturer/Supplier:**

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.

## **Control Vector UK** (K00238)

### **Manufacturer/Supplier:**

biotechrabbit GmbH

Neuendorfstr. 24a

16761 Hennigsdorf

Germany

Office: +49 3302 207541-0

Fax: +49 3302 207541-1

Email: [info@biotechrabbit.com](mailto:info@biotechrabbit.com)

[www.biotechrabbit.com](http://www.biotechrabbit.com)

Per OSHA 29CFR1910.1200 and the latest amendments to the European Union Directive 1272/2008/EC, the following products do not require a Safety Data Sheet (SDS).

Sensitizing, carcinogenic, mutagenic, and reprotoxic substances and substances classified as hazardous to human health or to the environment each comprise less than 0.1% of these products. Furthermore, less than 1% w/w of these products consists of materials that are classified as harmful, or for which an occupational exposure limit value (OEL) has been established. These products also contain no components from the Candidate List of Substances of Very High Concern for Authorization (SVHC) in concentrations of 0.1% or more.

Therefore, biotechrabbit does not provide a SDS for any of the following products. However, when working with these or any chemical reagents, we always recommend the use of gloves, lab coats, and eye protection. biotechrabbit assumes no liability for damage resulting from handling or contact with these products.