

Product: **BACGene Listeria Kits**

Version no: 01

Cat Nos: 5123221901/-10, 5123222001/-10, 5123222101/-10

Revision date: 27/10/2016

Printing date: 27/10/2016

Section 1: Identification of the Product and the Supplier

1.1 Identification/Product Name

Product: **BACGene Listeria kits:**

BACGene Listeria Multiplex	Cat no. 5123221901 /-10
BACGene Listeria monocytogenes	Cat no. 5123222001 /-10
BACGene Listeria spp.	Cat no. 5123222101 /-10

- Lysis buffer L
- Proteinase K
- Lysozyme
- Listeria positive control plasmid DNA

PCR plate with pre-dispensed MasterMix:

- **BACGene Listeria Multiplex** (only in Cat no. 5123221901/-10)
- **BACGene Listeria monocytogenes** (only in Cat no. 5123222001/-10)
- **BACGene Listeria spp.** (only in Cat no. 5123222101/-10)

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

Relevant identified uses

Laboratory chemicals - Product for analytical use. Test kits for qualitative real-time PCR detection of *Listeria* species.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

Uses advised against

Not described

1.3 Details of the supplier of the safety data sheet

Manufacturer: Eurofins GeneScan GmbH, Engesserstr. 4, 79108 Freiburg, Germany

☎ +49-(0) 761 5038-200

Fax.: +49-(0) 761 5038-211

E-mail: kits@eurofins.com

1.4 Emergency telephone number in the event of poisoning

In Germany:

Tel: 0761-5038-100 (German /English: Mo. –Fr., 8:00-17:00)

Or call regional advisory office for poisoning symptoms or call local lifesaving service.

Outside Germany: **Emergency telephone number**

Call your regional Poisons Information Service or call local Life Saving Service.

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Section 2 Hazard Identification

2.0 Classification of the complete product

- Lysis buffer L
- Proteinase K
- Lysozyme
- *Listeria* positive control plasmid DNA

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- BACGene *Listeria monocytogenes* (only in Cat no. 5123222001 /-10)
- BACGene *Listeria* spp. (only in Cat no. 5123222101 /-10)

Classification According the EG- guideline no. 1272/2008 (CLP)

Not classified

2.1 Classification of the substance(s) or mixture(s)

- Lysis buffer L
- *Listeria* positive control plasmid DNA

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- BACGene *Listeria* Multiplex (only in Cat no. 5123221901 /-10)
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- BACGene *Listeria* spp. (only in Cat no. 5123222101 /-10)

Classification According the EG- guideline no. 1272/2008 (CLP)

Not classified

- Proteinase K < 1%
Aqueous solution /mixture <1%, not classified
- Lysozyme < 1%
Aqueous solution /mixture <1%, not classified

2.2 Label elements

EUH 210: Safety data sheet available on request.

EUH 208 – Contains Proteinase K. May produce an allergic reaction.
– Contains Lysozyme. May produce an allergic reaction.

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2.3 Other hazards

Possible Hazards from physicochemical Properties

not applicable

Information pertaining to particular Risks to Human and possible Symptoms

not applicable

Information pertaining to particular Risks to the Environment

not applicable

Other Hazards

PBT, vPvB: not applicable

Section 3: Composition / Information on Ingredients

Aqueous solution /mixture

3.1 Substances or 3.2 Mixtures

- Lysis buffer L
Chemical: mixture, Aqueous solution
acc. CLP (GHS): not necessary
 - Proteinase K
(from *Tritirachium album*), CAS No.: 39450-01-6
Chemical: Aqueous solution /mixture < 1%
acc. CLP (GHS): EUH 208 – Contains Proteinase K. May produce an allergic reaction.
 - Lysozyme CAS No.: 12650-88-3
Chemical: Aqueous solution /mixture < 1%,
acc. CLP (GHS): EUH 208 – Contains Lysozyme. May produce an allergic reaction.
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 - BACGene *Listeria monocytogenes* (only in Cat no. 5123222001 /-10)
 - BACGene *Listeria* spp. (only in Cat no. 5123222101 /-10)
Chemical: Aqueous solution /mixture
acc. CLP (GHS): not necessary
 - *Listeria* positive control plasmid DNA
Chemical: Aqueous solution /mixture
acc. CLP (GHS): not necessary

3.3 Remarks

No additional remarks

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Section 4: First Aid Measures**4.1 Description of first aid measures**

Skin contact: Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. Use soap if possible.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses (if present) after the first 5 minutes, then continue rinsing eye. Consult a physician if necessary.

Inhalation: After inhalation of foam or vapour, fresh air should be inhaled. Call a physician if feeling unwell. If breathing is difficult, seek medical attention.

Ingestion: Rinse mouth with water. If swallowed contact a physician if feeling unwell.

General advice: No hazards which require special first aid measures.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: cough, breathless (Contains Proteinase K solution, Lysozyme solution. May produce an allergic reaction.)

4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.

Section 5: Fire Fighting Measures**5.1 Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO₂), foam, dry chemical can be used.

5.2 Special hazards arising from the substance or mixture

Not a fire or explosion hazard.

5.3 Advice for firefighters

Product package burns like paper or plastic. Clear the danger zone. Keep bystanders away. Wear self-contained breathing apparatus and protective suit if necessary.

5.4 Additional Information

No further information available.

Section 6: Accidental Release Measures**6.1 Personal Precautions, protective equipment and emergency procedures:**

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

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6.2. Environmental precautions:

Prevent from getting into waters and sewerage.

6.3 Methods and material for containment and cleaning up

Sweep/wipe up and collect in suitable containers for disposal. Clean with water. Use appropriate personal protective equipment during clean-up. Dispose of in accordance with local regulations.

6.4. Reference to other sections

Fire safety precautions: Section 5, personal protective equipment: Section 8

Section 7: Handling and Storage**7.1 Precautions for safe handling**

Avoid the formation of aerosol.

For personal hygiene: Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with skin and eyes and clothing. Wear suitable protective clothing.

Handling in accordance with instructions, that come with the product. Use only in well-ventilated working areas. If you feel unwell, seek medical attention and show the label when possible. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

The original product package allows safe storage. Keep original product packages tightly closed during handling and storage.

Lysis buffer L: store at $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ or $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$; after addition of Proteinase K and Lysozyme store at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for maximum 2 weeks.**Proteinase K:**Storage : $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ **Lysozyme:**Storage : $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ **BACGene *Listeria* spp., BACGene *Listeria monocytogenes*, BACGene *Listeria* Multiplex MasterMix:**PCR plate with pre-dispensed MasterMix and yellow PCR support grid. Store light protected at $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$.***Listeria* positive control plasmid DNA:**Store at $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Do not freeze/thaw more than 6 times.**7.3. Specific end use(s)**

laboratory chemicals - for analytical use

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Section 8: Exposure controls / Personal Protection

8.1 Control Parameter:

Components with workplace control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. DNEL, PNEC: Data not available.

8.2 Exposure Controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory Protection

Use only with adequate ventilation

8.2.2 Hand Protection

Yes: gloves according DGUV-R 112-195- EN 374.

8.2.3 Eye Protection

Yes: safety glasses according EN 166 with integrated side shields or wrap-around protection. Ensure that eyewash stations are proximal to the work-station location.

8.2.4 Skin Protection

Wear protective clothing such as gloves, apron, boots, or coveralls as appropriate.

8.2.5 Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

Engineering controls: Use only with adequate ventilation.

Section 9: Physical and chemical Properties

9.1 General Information

- **Lysis buffer L**

Form: liquid
Colour: colourless
Odor: odorless

- **Proteinase K**

Form: liquid
Colour: colourless
Odor: odorless

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- **Lysozyme**

Form: liquid
Colour: colourless
Odor: odorless

- **Listeria positive control plasmid DNA:**

Form: liquid
Colour: colourless
Odor: odorless

- **BACGene/ Listeria spp., -Listeria monocytogenes, -Listeria Multiplex / MasterMix: PCR Plate with pre-dispensed MasterMix**

Form: liquid
Colour: colourless
Odor: odorless

9.2 Other Information

Relevant Properties of Substance Group

9.2.1

- Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

Section 10: Stability and Reactivity

For

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10.1 Reactivity

Under normal usage conditions, no hazardous reactions are known.

10.2. Chemical stability:

Stability: Stable under normal conditions

10.3. Possibility of hazardous reactions:

Polymerization will not occur.

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10.4. Conditions to avoid

Heat

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No further information available.

Section 11: Toxicological Information

For

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- *Listeria* positive control plasmid DNA

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11.1 Information on toxicological effects

Acute Toxicity: Quantitative data not available

Skin corrosion/irritation: Quantitative data not available

Serious eye damage/eye Irritation: Quantitative data not available

Respiratory or skin sensitisation: Quantitative data not available.

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

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: Quantitative data not available.

Section 12: Ecological Information

12.1. Toxicity:	no data available
12.2. Persistence and degradability:	no data available
12.3. Bioaccumulative potential:	no data available
12.4. Mobility in soil:	no data available
12.5. Results of PBT and vPvB assessment:	no data available
12.6. Other adverse effects:	no data available

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Section 13: Disposal Considerations

13.1 Waste treatment methods

Chemicals must be disposed of in accordance with federal, state and local environmental control regulation.

Section 14: Transport information

No subject to transport regulations.

Section 15: Regulatory Information

15.1 International Regulations

REACH-Annex XVII: not applicable

REACH-Annex XIV: not applicable

15.2 Chemical safety assessment

Not necessary

Section 16 : Other Information

16.1 Training Advice

Multiple safety training of staff about danger and protection of using hazardous material in working areas. Additionally, training and introduction of staff for the use of these products.

16.2 Recommended Restriction on Use

Only for professional users.

Consult employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)!

Consult employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiV)!

16.3 Further Information

Eurofins GeneScan GmbH provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. Prior to use, please investigate also the laws and regulations of the organisation, area and country where the product is to be used.

16.4 Sources of Key Data

European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

16.5. Revisions/Updates

V 01 – October 2016

End of Safety Data Sheet