

Section 1: Identification of the Product and the Supplier

1.1 Identification/Product Name

Product: **BACGene *Salmonella* spp. kit,**

Cat. No. 5123221801

Cat. No. 5123221810 (10x)

- *Lysisbuffer I*, 2x 4 mL/40mL
- *Proteinase K solution*, 2 Tubes, each with 500 µl /5mL
(from *Tritirachium album*)
- *Salmonella positive control plasmid DNA*:
2x/4x -50µL
- *BACGene Salmonella spp. MasterMix* for *Salmonella* detection:
1x/ 10x PCR Plate with pre-dispensed MasterMix

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

Relevant identified uses

Product for analytical use. Test kit for qualitative real-time PCR detection of *Salmonella* spp.
Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

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.de

1.4 Emergency telephone number in the event of poisoning

In Germany:

Call regional advisory office for poisoning symptoms or call local lifesaving service.
e.g.: DE: Gemeinsames Giftinformationszentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730

Outside Germany: **Emergency telephone number**

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

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.

Section 2 Hazard Identification

2.0 Classification of the complete product

- ***Lysisbuffer I,***
- ***Proteinase K solution***
- ***BACGene Salmonella spp. MasterMix***
- ***Salmonella positive control plasmid DNA***

Mixture of components, that must be labelled, **<1%, not hazardous**

Directive 1999/45/EC

Symbols	-	do not need to be labelled as hazardous
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GHS Directive 1272/2008/EC

GHS Symbols	do not need to be labelled as hazardous
Signal word	do not need to be labelled as hazardous

No hazard class

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

Lysisbuffer I,
BACGene Salmonella spp. MasterMix,
Salmonella positive control plasmid DNA

Directive 1999/45/EC

Symbols	-	do not need to be labelled as hazardous
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GHS Directive 1272/2008/EC

GHS Symbols	do not need to be labelled as hazardous
Signal word	do not need to be labelled as hazardous

No hazard class

Proteinase K solution < 1%

Solution < 1%, not hazardous

GHS Symbols	do not need to be labelled as hazardous
Signal word	do not need to be labelled as hazardous

2.2 Label elements

According 1999/45/EC small amounts of harmful and highly flammable preparations/mixtures have part/complete exemption from labelling (no symbols F, O, Xn, Xi, N and no R and S phrases are necessary) until 25-125 mL /g. This labelling exemption is NOT valid for sensitised mixtures.

According CLP (GHS) inner packages must be only labelled with symbol(s) and product identifier.

Harmful chemicals/mixtures with signal word: "WARNING" and "highly flammable chemicals/mixtures" must not be labelled with H and P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2). This labelling exemption is NOT valid for sensitised substances.

2.3 Other hazards

Possible Hazards from physicochemical Properties

Information pertaining to particular Risks to Human and possible Symptoms

Information pertaining to particular Risks to the Environment

Other Hazards

PBT, vPvB: not applicable

Section 3: Composition / Information on Ingredients

Aqueous solution /mixture

3.1 Substances or 3.2 Mixtures

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- *Lysisbuffer I*, 2x 4 mL/40mL
Chemical: chemicals/mixture < 1%, not hazardous CAS No.: -
- *Proteinase K solution*, 2 Tubes, each with 500 µl /5mL
(from *Tritirachium album*),
Chemical: chemicals/mixture < 1%, not hazardous CAS No.: 39450-01-6
- *BACGene Salmonella spp. MasterMix* for *Salmonella* detection:
1x/ 10x PCR Plate with pre-dispensed MasterMix
Chemical: chemicals/mixture < 1%, not hazardous
- *Salmonella positive control plasmid DNA*:
2x/4x - 50 µL
Not hazardous

3.3 Remarks

-

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

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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. All extinguishers can be used.

5.2 Special hazards arising from the substance or mixture

Not a fire or explosion hazard.

5.3 Advice for firefighters

None- for listed product. Product package burns like paper or plastic. Spray any vapours released with water.

5.4 Additional Information

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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.

6.2. Environmental precautions:

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6.3 Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Use appropriate personal protective equipment during clean-up. Dispose of in accordance with local regulations.

6.4. Reference to other sections

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Section 7: Handling and Storage

7.1 Precautions for safe handling

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.

Lysisbuffer I: store at **4°C ±2°C**; after addition of proteinase K store at **4°C ±2°C** for maximum 2 weeks

Proteinase K solution:

Storage : -20°C ±2°C

BACGene *Salmonella* spp. MasterMix:

PCR plate with pre-dispensed MasterMix and yellow PCR support frame. Store light protected at -20°C ±2°C. Storage of non-frozen MasterMix is not recommended and may result in PCR artifacts.

Salmonella positive control plasmid DNA:

Store at -20°C ±2°C. Do not freeze/thaw more than 6 times.

7.3. Specific end use(s)

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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 EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short periods of time: chemical resistant latex gloves with code EN 374-3 level 1.

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

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- **Lysisbuffer I, 2x 4 mL/40mL**

Form: liquid
Colour: colourless
Odor: odourless

- **Proteinase K solution, 2 Tubes, each with 500 µl /5mL**

Form: liquid
Colour: colourless
Odor: odourless

- ***Salmonella* positive control plasmid DNA: 2x/4x -50µL**

Form: liquid
Colour: colourless
Odor: odourless

- **BACGene *Salmonella* spp. MasterMix for *Salmonella* detection:**
1x/ 10x PCR Plate with pre-dispensed MasterMix

Form: liquid
Colour: colourless
Odor: odourless

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

- Lysisbuffer I,
- Proteinase K solution
- BACGene *Salmonella* spp. MasterMix
- *Salmonella* positive control plasmid DNA

10.1 Reactivity

No data available

10.2. Chemical stability:

Stability: Stable

10.3. Possibility of hazardous reactions:

Polymerization will not occur.

10.4. Conditions to avoid

-

10.5 Incompatible materials

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10.6 Hazardous decomposition products

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Section 11: Toxicological Information

For

- Lysisbuffer I,
- Proteinase K solution
- BACGene *Salmonella* spp. MasterMix
- *Salmonella* positive control plasmid DNA

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

1 2.2. Persistence and degradability:

no data available

1 2.3. Bioaccumulative potential:

no data available

1 2.4. Mobility in soil:

no data available

1 2.5. Results of PBT and vPvB assessment:

no data available

1 2.6. Other adverse effects:

no data available

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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz-ChemG), revised on August 2013

German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

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.

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16.4 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2014

TRGS 907, German engineering rules governing listing of substances and causes of sensitisations,

16.5. Revisions/Updates

Reason for Revision:

MSDS of the complete BACGene *Salmonella* kit: V1, July 2015