



FastGene® HiFi HS 2x Master Mix

Cat. No.	Product
LS36	FastGene® HiFi HS 2x Master Mix

1. Identity of the substance and the manufacturer

1.1. Name of the substance or preparation

FastGene® HiFi HS 2x Master Mix

1.2. Recommended use of the chemical and restrictions on use

Laboratory research use only.

1.3. Name and address of the manufacturer

NIPPON Genetics EUROPE GmbH:
Mariaweilerstraße 28-30, Düren, 52349
Germany

1.4. Emergency telephone contact

+49 24212084690

2. Hazards

2.1. Kit component

2x FastGene® HiFi HS Master Mix

2.2. Classification of the substance or mixture

2.2.1. Classification according to Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

2.2.2. Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Void.

2.3. Information concerning particular hazards for human and environment

The product does not have to be labelled due to the calculation procedure of the „General Classification guideline for preparations of the EU“ in the latest valid version.

2.4. Classification system

The classification was made according to the latest editions of the EU-lists and expanded upon from company and literature data.



2.5. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

2.5.1. Labelling according to EU guidelines

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

2.6. Safety phrases

This material and its container must be disposed of in a safe way.

2.7. Other hazards

No information available.

2.8. Results of PBT and vPvB assessment

2.8.1. PBT

Not applicable.

2.8.2. vPvB

Not applicable.

3. Composition/information on ingredients

3.1. Chemical characterization

Mixtures.

3.2. Chemical characterization

Mixture of the substances listed below with non-hazardous additions.

3.3. Dangerous components

Name	CAS No.	EC No.	Classification according to EC regulation 1272/2008	Weight %
Glycerol	56-81-5	200-289-5	Not classified	<5 %

3.4. Additional information

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



4. First aid

4.1. Description of first aid measures

No special measures required.

4.2. After inhalation

Supply fresh air; consult doctor in case of complaints.

4.3. After skin contact

Wash skin with soap and water. Generally, the product does not irritate the skin.

4.4. After eye contact

Rinse opened eye for several minutes under running water.

4.5. After swallowing

Induce vomiting and call for medical help.

4.6. Information for doctor

Treat symptomatically.

4.7. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.8. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. In case of fire

5.1. Extinguishing media

5.1.1. Suitable extinguishing agents

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.1.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout.



5.1.4. Protective equipment

No special measures required or as above.

6. In case of spillage

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

- Dilute with plenty of water.
- Do not allow to enter sewers/surface or ground water.
- See section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

- Prevent further leakage or spillage if safe to do so. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.

6.4. Reference to other sections

- No dangerous substances are released.
- 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. Handling

7.1.1. Precautions for safe handling

No special measures required.

7.1.2. Information about protection against explosions and fires

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Storage

Keep container tightly closed in a dry and well-ventilated place.



7.2.2. Requirements to be met by storerooms and receptacles

According to product specification.

7.2.3. Information about storage in one common storage facility

Not required.

7.2.4. Further information about storage conditions

None.

7.3. Specific end use(s)

No further relevant information available.

7.4. Risk management methods [RMM]

The information required is contained in this Safety Data Sheet.

8. Exposure controls/personal protection

8.1. Additional information about design of technical systems

No further data; see item 7.

8.2. Control parameters

8.2.1. Components with limit values that require monitoring at the workplace

Name	CAS No.	Workplace exposure limits (different values for each country)
Glycerol	56-81-5	Not classified

8.2.2. Additional information

No further data; see item 7.

8.2.3. Exposure controls

No information available.

8.3. Personal protective equipment

8.3.1. General protective and hygienic measures

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



8.3.2. Breathing equipment

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

8.3.3. Protection of hands

Protective gloves.

8.3.4. Material of gloves

Synthetic gloves.

8.3.5. Penetration time of glove material

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

8.3.6. Eye protection

Safety glasses.

9. Physical and chemical properties

Appearance	
Form	Fluid
Colour	Light blue
Odour	Odourless
Odour threshold	Not determined
pH- value	Not determined
Change in condition	
Melting point/Melting range	No data available
Boiling point/Boiling range	No data available
Flash point	No data available
Flammability (solid, gaseous)	No data available
Ignition temperature	No data available
Decomposition temperature	No data available
Self igniting	Not determined
Danger of explosion	Product does not present an explosion hazard
Explosion limits	No data available
Vapour pressure at 20° C	Not determined
Density	No data available
Relative density	No data available



Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with	
Water	Fully miscible
Segregation coefficient (n- octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
Other information	No further relevant information available

10. Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Thermal decomposition/conditions to be avoided

None known based on information supplied.

10.4. Explosion data

10.4.1. Sensitivity to mechanical impact

None.

10.5. Possibility of hazardous reactions

None known based on information supplied.

10.6. Conditions to avoid

None known based on information supplied.

10.7. Incompatible materials

None known based on information supplied.

10.8. Hazardous decomposition products

None known based on information supplied.



11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	8,283 mg/kg
ATEmix (dermal)	3,303 mg/kg

11.1.2. Unknown acute toxicity

- 33.3 % of the mixture consists of ingredient(s) of unknown toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 23.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 33.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 33.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

11.2. Skin corrosion/irritation

No data available.

11.3. Serious eye damage/eye irritation

11.3.1. Eyes - rabbit

No data available.

11.4. Respiratory or skin sensitization

No data available.

11.5. Germ cell mutagenicity

No data available.

11.6. Carcinogenicity

11.6.1. 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.

11.7. Reproductive toxicity

No data available.



11.8. Specific target organ toxicity - single exposure

No data available.

11.9. Specific target organ toxicity - repeated exposure

No data available.

11.10. Aspiration hazard

No data available.

11.11. Potential health effects

11.11.1. Inhalation

Specific test data for the substance or mixture is not available.

11.11.2. Ingestion

Specific test data for the substance or mixture is not available.

11.11.3. Skin May

Specific test data for the substance or mixture is not available.

11.11.3. Eyes

Specific test data for the substance or mixture is not available.

11.12. Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity

12.1.1. Aquatic toxicity

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.



12.3. Behaviour in environmental systems

12.3.1. Bioaccumulative potential

No further relevant information available.

12.3.2. Mobility in soil

No further relevant information available.

12.3.3. Additional ecological information

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.

12.4. Results of PBT and vPvB assessment

12.4.1. PBT

No further relevant information available.

12.4.1. vPvB

No further relevant information available.

12.5. Other adverse effects

No further relevant information available.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

13.2. Uncleaned packaging

13.2.1. Recommendation

Disposal must be made according to official regulations.

13.2.2. Recommended cleansing agent

Water, if necessary, with cleansing agents.



15. Transport information

15.1. IMDG

15.1.1. Marine pollutant

Not applicable.

15.1.2. UN number

Not regulated.

15.1.3. Proper shipping name

Not regulated.

15.1.4. Packing group

Not regulated.

15.1.5. Special Provisions

Not regulated.

15.1.6. Special precautions for user

Not applicable.

15.1.7. Transport/Additional information

Not dangerous according to the above specifications.

15.1.8. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15.2. RID

15.2.1. UN/ID No

Not regulated.

15.2.2. Proper shipping name

Not regulated.

15.2.3. Transport hazard class(es)

Not regulated.



15.2.4. Packing group

Not regulated.

15.2.5. Environmental hazard

Not applicable.

15.2.6. Special Provisions

None.

15.3. ADR

15.3.1. UN number

Not regulated.

15.3.2. Proper shipping name

Not regulated.

15.3.3. Transport hazard class(es)

Not regulated.

15.3.4. Packing group

Not regulated.

15.3.5. Environmental hazard

Not applicable.

15.3.6. Special Provisions

None.

15.4. IATA

15.4.1. UN number

Not regulated.

15.4.2. Proper shipping name

Not regulated.

15.4.3. Transport hazard class(es)

Not regulated.

**15.4.4. Packing group**

Not regulated.

15.4.5. Environmental hazard

Not applicable.

15.3.6. Special Provisions

None.

16. Regulatory information

16.1. National regulations

16.1.1. Technical instructions (air)**16.1.1.1. Class Share in %**

NK 10-20.

16.1.2. Water hazard class

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

16.1.3. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16.2. European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

16. Other information

This information is based on our present knowledge. Its objective is to describe the product from the point of view of safety, and no warranty is made other than its characteristics. This information does not absolve the user in any circumstances from observing other Legislative, Regulatory and Administrative requirements applying to the product, and to safety, hygiene and the well-being of the people in the workplace.



NIPPON GENETICS EUROPE GmbH

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