

FastGene® 1 kb DNA Marker Plus

Cat. No.	Product	Content
MWD1P	FastGene® 1 kb DNA Marker Plus	0.5 mL

1. Identity of the substance and the manufacturer

1.1. Name of the substances or preparations

FastGene® 1 kb DNA Marker Plus

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 a 52349 Düren Germany

1.4. Emergency telephone contact

+49 2421/554960

2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to the Regulation (EC) No. 1272/2008 (CLP) No applicable.

2.2. Labelling elements

2.2.1. Labelling according to the Regulation (EC) No. 1272/2008 (CLP)

Substance on the label: not available

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Pictograms: void Signal word: none H statements: void P statements: void

2.3. Other hazards

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

Physical-chemical hazardous effects are unknown. On complains and symptoms as well as to harmful effects no data are available.

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labelled with danger symbols or indications of danger.

Hazards deriving from physical chemical properties: The data available do not support any physical or chemical hazard.

Human health hazards: Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Prolonged skin contact may cause minor irritation.

Caution: Avoid inhalation, ingestion and skin contacts.

Environmental hazards: The data available do not support any environmental hazard.

3. Composition/information about the components

3.1. Substances

Not relevant.

3.2. Mixtures

3.2.1. Chemical characterization

Chemical	Content	EC No.	CAS No.	Classification
Glycerol	10-25%	200-289-5	56-81-5	not classified as hazardous
Water	>50%	231-791-2	7732-18-5	not classified as hazardous

Components not listed here are not dangerous or their concentration do not exceed the limits specified in the EU directive 1999/45/EC.

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4. First-aid measures

4.1. General information



If complains persist consult a physician. Remove contaminated cloths and shoes, thoroughly clean before re-use. If complains and symptoms occur seek medical advice.

4.2. Description of necessary first-aid measures

4.2.1. Inhalation

If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

4.2.2. Skin contact

Generally, the product does not irritate the skin. If symptoms of irritation after prolonged exposure occur, consult a doctor.

4.2.3. Eye contact



In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

4.2.4. Ingestion

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in evet of any complaints.

4.3. Most important symptoms and effects, both acute and delayedNot relevant.

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

Decontamination, symptomatic treatment. No specific antidote known.

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5. In case of fire

5.1. Suitable extinguishing agents



The product is not combustible, adapt the measures to the environment: water spray, carbon dioxide, extinguishing foam and dry extinguishing agent.

5.2. Not suitable extinguishing agents

None.

5.3. Special exposure hazards arising from the substance or mixture



Not thoroughly investigated.

5.4. Advice for fire fighters



Use a self-contained breathing apparatus (SCBA) at poor ventilation and in closed rooms. Wear protection cloth.

Adapt the extinguishing media and fire-fighting measures to the environment.

6. In case of spillage

6.1. Personal precautions, protective equipment and emergency procedures

Mind the protection measures (section 8). Avoid the contact with skin, eyes and cloth, wear suitable protection equipment. Ensure adequate ventilation. Avoid aerosol formation.

6.2. Environmental precautions

No special measures required.

6.3. Methods and meterials for containment and cleanup

Take up with liquid-binding agents, e.g. universal binder, treat material as described in section 13 "Disposal considerations". Clean contaminated surfaces with water.

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6.4. Reference to other sections

Refer to section 8 - personal protection and section 13 - information on disposal.

7. Handling and storage

7.1. Safe handling

7.1.1. Information on safe use

Avoid inhalation of aerosol, contact with eyes, skin and cloth, as well as longer or repeated exposure. Provide sufficient ventilation of the working room (local exhaust ventilation if needful). If workplace exposure limits are exceeded, wear appropriate respiratory protection.

7.1.2. Information on fire and explosion protection

No special measures needful.

7.1.3. Handling rules

No further requirements.

7.2. Safe storage

7.2.1. Technical measures and storage conditions

Keep opened container tightly closed again and stored upright to prevent leakage. Always keep in containers of the same material as the original. Storage temperature -20 ° C recommended.

7.2.2. Packing materials

Packing materials must be tested for durability before use.

7.2.3. Requirements for storage rooms and containers

Storage in passages, stairs, public areas, roofs and workrooms is not permitted. Do not use food containers because of the risk of confusion. Label containers clearly and permanently. If possible, keep in the original container, keep container tightly closed.

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7.2.4. Information on cumulative storage

Storage class: not relevant.

7.2.5. Further information to the storage conditions

None.

7.3. Specific end uses

None.

8. Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limits

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

8.2. Personal protection

8.2.1. Respiratory protection



No respiratory protection is necessary when working with the product.

8.2.2. Hand protection



At the risk of skin contact with the product, ensure adequate protection by wearing suitable protective gloves, e.g. according to EN 374. Before use, test protective gloves for suitability under the specific working conditions (e.g., mechanical resistance, product compatibility and antistatic properties). Observe the instruction and information on the use, storage, maintenance and replacement of protective gloves. Damaged and worn protective gloves should be replaced immediately.

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8.2.3. Eye protection



Eye protection goggles with side protection (EN 166).

8.2.4. Skin protection

Use clothing usal in the chemical industry. Skin protection agents are not as effective as protective gloves, so they should be preferred as much as possible. If no protective gloves can be worn, apply water-insoluble skin protection preparations to the clean skin before starting work and after every break. Before breaks and at the end of work, skin cleansing with soap and water is required. After cleansing, use a greasy skin care product.

8.2.5. Body protection



Special body protection generally not required, normal work clothes adequate.

8.2.6. General protection and hygiene measure



Do not eat, drink or smoke during working hours. Keep away from food and drink. Avoid contact with eyes and skin. Remove contaminated and soaked clothing immediately. Wash hands before breaks and after work.

8.3. Limitation of the environmental exposure

Avoid leaks and spills.

8.4. Limitation of the consumer's exposure

Avoid inhalation of vapors, mists or gases, remove sources of ignition.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid

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Colour	BLue
Odour	Odourless

Parameter	Value	Unit	Method	Rmearks
pH value at 25 °C	8.0	-	visual by pH paper	
Melting point/range	approx. 0	°C	-	32 °F
Boiling point/range	approx. 100	°C	-	212 °F
Evaporation rate (water=1)	n.a.	-	-	
Flash point	n.a.	°C	-	
Self-ignition temperature	n.b.	°C	-	
Vapour pressure at 20 °C	n.a.	mmHg	-	
Density	1	g/cm³		
Bulk density	n.d.	g/cm³	-	
Vapor density (air=1)	n.a.	g/cm³	-	
Water solubility at 20 °C	-	mg/L	-	unlimited
Granulometry	n.a.	μm	-	
Conductivity	n.d.	-	-	
Dynamic viskosity	n.b.	mPa*s	-	
Lower explosion limit	n.a.	Vol.%		
Upper explosion limit	n.a.	Vol.%		

n.a.: not applicable

n.d.: not determined

9.2. Other information

Not relevant.

10. Stability and reactivity

10.1. Reactivity

Not reactive under the intended use and storage conditions.

10.2. Chemical stability

Chemically stable under the intended use and storage conditions.

10.3. Possibility of hazardous reactions

Unknown under the intended use and storage conditions.

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10.4. Conditions to avoid

No conditions which may cause dangerous reactions.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Toxicocinetics, metabolism and distribution

No data available.

11.1.2. Acute toxicity

No data available.

11.1.3. Corrosive and irritation effects

Inhalation of aerosols may cause allergic type reactions in sensitive individuals. Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract. Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

11.1.4. Sensitizing effects

No data available.

11.1.5. Subacute and chronic toxicity

No data available.

11.1.6. Carcinogenicity, mutagenicity and reproduction toxicity

On carcinogenicity, mutagenicity and reproduction toxicity of the product no data are available.

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11.1.7. Experience from practise

No data available.

11.1.8. General remarks

When handled appropriate and used as intended, the product does not cause harmful effects according to our experience and current information.

12. Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Biological degradation Product is readily biodegradable.

Abiotic degradation No data available.

12.3. Bioaccumulative potential

Does not accumulate in biota, and does not pass through the food chain.

12.4. Mobility in soil

Absorption/Desorption No data available.

12.5. Volatibility

No data available.

12.6. Results of the PBT and vPvB assessment

On PBT or vPvB properties of the product or its ingredients according to the criteria of REACH Annex XIII no information is available.

12.7. Other adverse effects

Not applicable.

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12.8. General remarks

When handled appropriate and used as intended, the product does not cause adverse effects according to our experience and current information, but should not be discharged into large quantities into an outflow or water body.

13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product

The allocation of a waste code number according to the European waste catalog should be done in consultation with the regional waste disposal company.

13.1.2. Packaging

Residues in packages should be removed, preferably by rinsing with water, and after complete emptying in accordance with the regulations for waste disposal. Packaging which is not completely emptied must be disposed of in the form as determined by the regional waste disposal company.

14. Transport information

UN-Number	None
UN proper shipping name	No dangerous goods
Transport hazard class(es)	None
Packaging group	None
Hazard label	None
Hazard number	None
Environmental hazards	Refer to section 12
Marine Pollutant	No
Special precautions for user	Refer to section 9
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not relevant
Transport category	None
Tunnel code	None

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15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU Regulations

• Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP): The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, 88/379/ECC, and is not labelled with danger symbols or indication of danger.

15.1.2. National regulations (US)

Classification and labelling:

Caution: Avoid contact and inhalation.

• Other U.K. regulations and guidance:

SARA LISTED: No

15.1.3. National regulations (Canada)

WHMIS classification:

This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

DSL:

No.

NDSL:

No.

15.2. Chemical safety assessment

Chemical safety assessments (CSA) according to the Article 14 Paragraph 1 of the Regulation (EC) No 1907/2006 (REACH) are not available.

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.

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NIPPON GENETICS EUROPE GmbH

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