



FastGene® 50 bp DNA Marker

Cat. No.	Product	Content
MWD50	FastGene® 50 bp DNA Marker	0.5 ml

1. Identity of the substance and the manufacturer

1.1. Name of the substance or preparation

FastGene 50 bp DNA Marker

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 identification

The product 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.

2.1. Hazards deriving from physical-chemical properties

The data available do not support any physical or chemical hazard.

2.2. 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.

2.3. Environmental hazards

The data available do not support any environmental hazard.



3. Composition/information about the components

3.1. Ingredients

Water	> 75% (v/v)	EC#231-791-2	CAS#7732-18-5
Glycerol	10-25% (v/v)	EC#200-289-5	CAS#56-81-5

3.2. Other components

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

3.3. Additional information

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

4. First aid measures

4.1. Ingestion

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

4.2. Inhalation

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

4.3. Skin contact

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

4.4. 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

5. In case of fire

The product cannot cause fire.



5.1. Suitable extinguishing agents

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

5.2. Not suitable extinguishing agents

None.

5.3. Special exposure hazards from decomposition products

Not thoroughly investigated.

5.4. Protective equipment

Wear self-contained breathing apparatus and protective clothing.

6. In case of spillage

6.1. Personal precautions

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage.
In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

6.2. Environmental precautions

No special measures required.

6.3. Methods for cleaning up

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

6.4. Additional information

No dangerous substances are released.

7. Handling and storage

7.1. Handling

No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid.
Avoid the formation of aerosols. Ventilate area.



7.2. Storage

Store at - 20°C. None other specific requirements relating to the product.

8. Exposure controls/personal protection

8.1. Ingredients with limit values that require monitoring at the workplace

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

8.2. General protective and hygienic measures

The usual precautionary measures are the same as for chemicals handling.

8.3. Engineering measures

None specific requirements relating to the product.

8.4. Personal protection

8.4.1. Respiratory protection

No special measures required.

8.4.2. Hand protection

Wear rubber gloves. None special requirements to rubber.

8.4.3. Eye protection

No need to wear glasses (goggles) when ordinary operations with the product.
Safety glasses are recommended during certain operations when aerosol formation is possible.

8.4.4. Skin protection

The usual precautionary measures accepted in research laboratories, e.g.

9. Physical and chemical properties

Protective clothes (gowns). None specific requirements.



Appearance	Liquid
Colour	Blue
Odour	Odourless
pH-value at 25 °C	8.0
Boiling point	100 °C
Flash Point	Not applicable
Flammability/autoflammability	The product is not flammable/self-igniting
Explosive properties	The product does not possess explosive properties
Oxidizing properties	Not applicable
Vapor pressure	Not applicable
Relative density at 20 °C	~1 g/cm ³
Solubility in/miscibility with water	Fully miscible
Fat solubility	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Conductivity	Not applicable
Viscosity	Not viscous

10. Stability and reactivity

10.1. Stability

Stable under storage conditions (see Section 7).

10.2. Conditions to avoid

No conditions which may cause dangerous reactions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Materials to avoid

No materials which may cause dangerous reactions.

10.5. Hazardous decomposition products

No dangerous decomposition products known.



11. Toxicological information

11.1. Hazardous polymerization

Will not occur.

11.1.1. Inhalation

Inhalation of aerosols may cause allergic type reactions in sensitive individuals.

11.1.2. Ingestion

Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

11.1.3. Skin and eye contact

Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

11.2. Additional toxicological information

When used and handled according to specifications, the product does not have any harmful effects. The product is not listed in a priority list as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of the existing substances.

12. Ecological information

12.1. Ecotoxicity

The product is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity.

12.2. Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

It is considered that the product does not accumulate in biota, and does not pass through the food chain.

12.4. Other adverse effects

Not applicable.



13. Disposal considerations

The disposal of the product does not pose danger.

No special disposal methods required, except to be in accordance with current local environmental regulations.

14. Transport information

14.1. Special precautions

None known.

14.2. Proper shipping name

“Non-dangerous goods” according to transport regulations.

14.3. National transport regulations

No additional national transport regulations are known to the supplier.

14.4. IMDG

Non-hazardous for sea freight.

14.5. ADR

Non-hazardous for road transport.

14.6. RID

Non-hazardous for rail transport.

14.7. ICAO/IATA

Non-hazardous for air transport.

15. Regulatory information

15.1. Other information

The product may be stored in ice during the transportation.



15.2. US

15.2.1. Labelling according to US Regulations

Caution: Avoid contact and inhalation.

15.2.2. US Regulatory information

SARA LISTED: No.

15.3. EU

15.3.1. Labelling according to EU Guidelines

The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labelled with danger symbols or indications of danger.

15.4. Canada

15.4.1. 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.

15.5. DSL

No.

15.6. NDSL

No.

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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