



## FastGene® IC Green 2x Universal Mix

Cat. No.	Product	Content
LS4001	FastGene® IC Green 2x Universal Mix	1 x 1 mL (100 x 20 µl rxns)
LS4005		5 x 1 mL (500 x 20 µl rxns)
LS4050		1 x 50 mL (5000 x 20 µl rxns)

### 1. Identity of the substance and the manufacturer

#### 1.1. Name of the substance or preparation

FastGene® IC Green 2x Universal 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 a, Düren, 52349 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 Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

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

Void.



### 2.1.3. 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.

### 2.1.4. Classification system

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

### 2.1.5. Label elements

#### 2.1.5.1. 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).

### 2.1.6. Safety phrases

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

### 2.1.7. Other hazards

#### 2.1.7.1. Results of PBT and vPvB assessment

- PBT: not applicable.
- vPvB: not applicable.

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## 3. Composition/information about the components

### 3.1. Substance/mixture

Mixture/single chemical: mixture

Mixture of the substances listed below with nonhazardous additions.

Component	CAS No.	EC No.	Content	GHS classification
Dimethyl sulfoxide	67-68-5	200-664-3	5-10%	-
Glycerol	56-81-5	200-289-5	1.0-2.5%	Eye Irrit. 2, H319



### 3.1. Additional information

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

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## 4. First-aid measures

### 4.1. Description of necessary first-aid measures

#### 4.1.1. General information

No special measures required.

#### 4.1.2. Inhalation

Supply fresh air.

Consult doctor in case of complaints.

#### 4.1.3. Skin contact

Generally the product does not irritate the skin.

#### 4.1.4. Eye contact

Rinse opened eye for several minutes under running water.

#### 4.1.5. Ingestion

Induce vomiting and call for medical help.

### 4.2. Information for doctors

#### 4.2.1. Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### 4.2.2. Indication of any immediate medical attention and special treatment needed

No further relevant information available.



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## 5. In case of fire

### 5.1. Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

### 5.2. Special exposure hazards

No further relevant information available.

### 5.3. Recommendations for firefighter

#### 5.3.1. Protective equipment

No special measures required.

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## 6. In case of spillage

### 6.1. Personal precautions, protective equipment and emergency procedures

Not required.

### 6.2. Environmental precautions

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

### 6.3. Methods and materials for containment and cleanup

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.



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## 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. Storage

#### 7.2.1. Requirements to be met by storerooms and receptacles

According to product specification.

#### 7.2.2. Information about storage in one common storage facility

Not required.

#### 7.2.3. Further information about storage conditions

None.

### 7.3. Specific end use(s)

No further relevant information available.

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## 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

Proprietary Reagent RF I.



Component	CAS No.	EC No.	Workplace exposure limits (WEL)
Glycerol	56-81-5	200-289-5	Short-term value: 20 mg/m <sup>3</sup>
			Long-term value: 10 mg/m <sup>3</sup>

### 8.3. Additional information about design of technical systems

The lists that were valid during the creation were used as basis.

### 8.4. Personal protective equipment

#### 8.4.1. General protective and hygienic measures

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

#### 8.4.2. Respiratory protection

Not required.

#### 8.4.3. Hand protection

Protective gloves.

##### 8.4.3.1. Material of gloves

Synthetic gloves.

##### 8.4.3.2. Penetration time of glove material

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

#### 8.4.4. Eye protection

Safety glasses.

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## 9. Physical and chemical properties

Appearance	Colourless fluid
Odour	Odourless
Odour threshold	Not determined
pH-value	Not determined



Melting point/melting range	Undetermined
Boiling point/boiling range	100 °C
Flash point	> 55 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	270°C
Decomposition temperature	Not determined
Self igniting	Product is not selfigniting
Danger of explosion	Product does not present an explosion hazard
Lower explosion limits	1.8 Vol %
Upper explosion limits	63.0 Vol %
Vapour pressure at 20°C	23 hPa
Density	Not determined
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in/miscibility with water	Fully miscible
Segregation coefficient (n-octanol/water)	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Solvent content	
Organic solvents	12.0 %
Water	71.3 %
Solid content	16.7 %
Other information	No further relevant information available

## 10. Stability and reactivity

### 10.1. Reactivity

#### 10.1.1. Chemical stability

##### 10.1.1.1. Chemical stability

No decomposition if used according to specifications.

### 10.2. Possibility of hazardous reactions

No dangerous reactions known.



### 10.3. Conditions to avoid

No further relevant information available.

### 10.4. Incompatible materials

No further relevant information available.

### 10.5. Hazardous decomposition products

No dangerous decomposition products known.

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## 11. Toxicological information

### 11.1. Acute toxicity

Component	CAS No.	EC No.	LD/LC50 values	Primary irritant effect	Sensitization
Dimethyl sulfoxide	67-68-5	200-664-3	Oral LD50 14500 mg/kg (rat)	<ul style="list-style-type: none"><li>skin: no irritant effect</li><li>eye: no irritating effect</li></ul>	No sensitizing effects known

### 11.2. Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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## 12. Ecological information

### 12.1. Aquatic toxicity

No further relevant information available.

### 12.2. Persistence and degradability

No further relevant information available.



### 12.3. Bioaccumulative potential

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

### 12.5. General notes

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.

### 12.6. Results of PBT and vPvB assessment

- PBT: not applicable
- vPvB: not applicable

### 12.7. Other adverse effects

No further relevant information available.

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## 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 packagings

#### 13.2.1. Recommendation

Disposal must be made according to official regulations.

#### 13.2.2. Recommended cleansing agent

Water, if necessary with cleansing agents.



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## 14. Transport information

### 14.1. Maritime transport IMDG

#### 14.1.1. Marine pollutant

No.

### 14.2. Air and Land Transport/Additional information

Not dangerous according to the above specifications. Product does not belong to hazard class of any international agreements on the transport and packaging of dangerous goods.

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

Not applicable.

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## 15. Regulatory information

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

#### 15.1.1. National regulations

##### 15.1.1.1. Technical instructions (air)

- Class Share in %
- NK 10-20

##### 15.1.1.2. Water hazard class

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

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



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## 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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