



## FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)

Cat. No.	Product	Component
LS42s	FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)	2x FastGene® IC Green Blue Mix

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

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

2x FastGene® IC Green Blue 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

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

##### 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

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

### 2.1.6. 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).

### 2.1.7. Safety phrases

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

### 2.1.8. Other hazards

No information available

### 2.1.9. Results of PBT and vPvB assessment

- PBT: not applicable
- vPvB: not applicable

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## 3. Composition/information about the components

### 3.1. Chemical characterization

Mixtures

### 3.2. Description

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

### 3.3. Dangerous components

Component	CAS No	EC No	Classification according to EC regulation 1272/2008	Weight %
Dimethyl sulfoxide	67-68-5	200-664-3	5-10%	< 5 %
Glycerol	56-81-5	200-289-5	1.0-2.5%	< 5 %

### 3.4. 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. After Inhalation**

Supply fresh air; consult doctor in case of complaints.

#### **4.1.3. After Skin contact**

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

#### **4.1.4. After Eye contact**

Rinse opened eye for several minutes under running water.

#### **4.1.5. After swallowing**

Induce vomiting and call for medical help.

### **4.2. Information for doctors**

Treat symptomatically.

#### **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. Firefighting measures**

### **5.1. Extinguishing agents**

#### **5.1.1. Suitable extinguishing agents**

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

### **5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

### **5.3. Advice for firefighters:**

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

#### **5.3.1. Protective equipment**

No special measures required or as above.



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## 6. Accidental release measures

### 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 materials 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.

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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. 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

None.



#### 7.2.4. Further information about storage conditions:

None.

#### 7.2.5. Specific end use(s)

No further relevant information available.

#### 7.2.6. 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

Component	CAS No.	Workplace exposure limits (different values for each country)
Dimethyl Sulfoxide	67-68-5	STEL: None or up to 500 mg/m <sup>3</sup> - LTEL: None or up to 160 mg/m <sup>3</sup>
Glycerol	56-81-5	STEL: None or up to 400 mg/m <sup>3</sup> - LTEL: None or up to 200 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. Exposure controls

No information available.

### 8.5. Personal protective equipment

#### 8.5.1. General protective and hygienic measures

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

#### 8.5.2. 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.

#### 8.5.3. Protection of hands

Protective gloves.



### 8.5.3.1. 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.

### 8.5.4. Eye protection

Safety glasses.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Fluid
Colour	Light Blue
Odour	Odourless
Odour threshold	Not determined
pH-value	Not determined
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	Not determined
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	Not determined
Dynamic	Not determined
Kinematic	Not determined
Other information	No further relevant information available



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## 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.

#### 10.4.2. Possibility of hazardous reactions

None known based on information supplied.

### 10.5. Conditions to avoid

None known based on information supplied.

### 10.6. Incompatible materials

None known based on information supplied.

### 10.7. Hazardous decomposition products

None known based on information supplied.

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## 11. Toxicological information

Information on toxicological effects

### 11.1. Numerical measures of toxicity

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

ATEmix (oral): 66,172 mg/kg

ATEmix (dermal): 26,321 mg/kg

Unknown acute toxicity 19.5 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0.1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

19.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

19.5 % 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**

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:**

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**

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

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

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

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.



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## 12. Ecological information

### 12.1. Toxicity - Acquatic 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. Additional ecological information - 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: No further relevant information available.
- vPvB: No further relevant information available.

### 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 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.



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## 14. Transport information

### 14.1. IMDG

#### 14.1.1. Marine pollutant

Not applicable

#### 14.1.2. UN number

Not regulated

#### 14.1.3. Proper shipping name

Not regulated

#### 14.1.4. Packing group

Not regulated

#### 14.1.5. Special Provisions

Not regulated

#### 14.1.6. Special precautions for user

Not applicable

#### 14.1.7. Transport/Additional information

Not dangerous according to the above specifications

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

Not applicable

### 14.2. RID

#### 14.2.1. UN/ID No

Not regulated

#### 14.2.2. Proper shipping name

Not regulated

#### 14.2.3. Transport hazard class(es)

Not regulated

#### 14.2.4. Packing group

Not regulated

#### 14.2.5. Environmental hazard

Not applicable



#### **14.2.6. Special Provisions**

None

### **14.3. ADR**

#### **14.3.1. UN number**

Not regulated

#### **14.3.2. Proper shipping name**

Not regulated

#### **14.3.3. Transport hazard class(es)**

Not regulated

#### **14.3.4. Packing group**

Not regulated

#### **14.3.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

None

### **14.4. IATA**

#### **14.4.1. UN number**

Not regulated

#### **14.4.2. Proper shipping name**

Not regulated

#### **14.4.3. Transport hazard class(es)**

Not regulated

#### **14.4.4. Packing group**

Not regulated

#### **14.4.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

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. National regulations

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

Class Share in %: NK 10-20

##### 15.1.1.2. Technical instructions (air)

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

##### 15.1.1.3. Technical instructions (air)

A Chemical Safety Assessment has not been carried out.

#### 15.1.2. 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.

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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.



## FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)

Cat. No.	Product	Component
LS42s	FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)	10x Demo kit Primers

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

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

10x Demo kit Primers

#### 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

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

##### 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

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

### 2.1.6. 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).

### 2.1.7. Safety phrases

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

### 2.1.8. Other hazards

No information available

### 2.1.9. Results of PBT and vPvB assessment

- PBT: not applicable
- vPvB: not applicable

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## 3. Composition/information about the components

### 3.1. Chemical characterization

Mixtures

### 3.2. Description

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

### 3.3. Dangerous components

Not applicable

### 3.4. 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. After Inhalation

Supply fresh air; consult doctor in case of complaints.



#### **4.1.3. After Skin contact**

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

#### **4.1.4. After Eye contact**

Rinse opened eye for several minutes under running water.

#### **4.1.5. After swallowing**

Induce vomiting and call for medical help.

### **4.2. Information for doctors**

Treat symptomatically.

#### **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. Firefighting measures**

### **5.1. Extinguishing agents**

#### **5.1.1. Suitable extinguishing agents**

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

### **5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

### **5.3. Advice for firefighters:**

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

#### **5.3.1. Protective equipment**

No special measures required or as above.

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## **6. Accidental release measures**

### **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 materials 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.

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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. 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

None.

### 7.2.4. Further information about storage conditions:

None.

### 7.2.5. Specific end use(s)

No further relevant information available.



### 7.2.6. Risk management methods [RMM]

The information required is contained in this Safety Data Sheet.

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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

None.

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

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

### 8.4. Exposure controls

No information available.

### 8.5. Personal protective equipment

#### 8.5.1. General protective and hygienic measures

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

#### 8.5.2. 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.

#### 8.5.3. Protection of hands

Protective gloves.

##### 8.5.3.1. 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.

#### 8.5.4. Eye protection

Safety glasses.



## 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Fluid
Colour	Colourless
Odour	Odourless
Odour threshold	Not determined
pH-value	Not determined
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	Not determined
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	Not determined
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.

### 10.4.2. Possibility of hazardous reactions

None known based on information supplied.

## 10.5. Conditions to avoid

None known based on information supplied.

## 10.6. Incompatible materials

None known based on information supplied.

## 10.7. Hazardous decomposition products

None known based on information supplied.

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# 11. Toxicological information

Information on toxicological effects

## 11.1. Numerical measures of toxicity

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

ATEmix (oral): unknown

ATEmix (dermal): unknown

Unknown acute toxicity 0.8 % of the mixture consists of ingredient(s) of unknown toxicity.

0.8 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

0.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

0.8 % 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

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:**

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**

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

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

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

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.

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## **12. Ecological information**

### **12.1. Toxicity - 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. Additional ecological information - 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: No further relevant information available.
- vPvB: No further relevant information available.

## 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 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.

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# 14. Transport information

## 14.1. IMDG

### 14.1.1. Marine pollutant

Not applicable

### 14.1.2. UN number

Not regulated

### 14.1.3. Proper shipping name

Not regulated



#### **14.1.4. Packing group**

Not regulated

#### **14.1.5. Special Provisions**

Not regulated

#### **14.1.6. Special precautions for user**

Not applicable

#### **14.1.7. Transport/Additional information**

Not dangerous according to the above specifications

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

Not applicable

### **14.2. RID**

#### **14.2.1. UN/ID No**

Not regulated

#### **14.2.2. Proper shipping name**

Not regulated

#### **14.2.3. Transport hazard class(es)**

Not regulated

#### **14.2.4. Packing group**

Not regulated

#### **14.2.5. Environmental hazard**

Not applicable

#### **14.2.6. Special Provisions**

None

### **14.3. ADR**

#### **14.3.1. UN number**

Not regulated

#### **14.3.2. Proper shipping name**

Not regulated

#### **14.3.3. Transport hazard class(es)**

Not regulated



#### **14.3.4. Packing group**

Not regulated

#### **14.3.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

None

### **14.4. IATA**

#### **14.4.1. UN number**

Not regulated

#### **14.4.2. Proper shipping name**

Not regulated

#### **14.4.3. Transport hazard class(es)**

Not regulated

#### **14.4.4. Packing group**

Not regulated

#### **14.4.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

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. National regulations**

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

Class Share in %: NK 10-20

##### **15.1.1.2. Technical instructions (air)**

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



#### **15.1.1.3. Technical instructions (air)**

A Chemical Safety Assessment has not been carried out.

#### **15.1.2. 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.

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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.



## FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)

Cat. No.	Product	Component
LS42s	FastGene® 2x IC Green Blue Mix Demo Kit (20 rxns)	DNA standards (1 - 5)

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

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

DNA standards (1 - 5)

#### 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

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

##### 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

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

### 2.1.6. 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).

### 2.1.7. Safety phrases

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

### 2.1.8. Other hazards

No information available

### 2.1.9. Results of PBT and vPvB assessment

- PBT: not applicable
- vPvB: not applicable

---

## 3. Composition/information about the components

### 3.1. Chemical characterization

Mixtures

### 3.2. Description

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

### 3.3. Dangerous components

Not applicable

### 3.4. Additional information:

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

---

## 4. First-aid measures

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

#### 4.1.1. General information

No special measures required.

#### 4.1.2. After Inhalation

Supply fresh air; consult doctor in case of complaints.



#### **4.1.3. After Skin contact**

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

#### **4.1.4. After Eye contact**

Rinse opened eye for several minutes under running water.

#### **4.1.5. After swallowing**

Induce vomiting and call for medical help.

### **4.2. Information for doctors**

Treat symptomatically.

#### **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. Firefighting measures**

### **5.1. Extinguishing agents**

#### **5.1.1. Suitable extinguishing agents**

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

### **5.2. Special hazards arising from the substance or mixture**

No further relevant information available.

### **5.3. Advice for firefighters:**

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

#### **5.3.1. Protective equipment**

No special measures required or as above.

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## **6. Accidental release measures**

### **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 materials 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

None.

### 7.2.4. Further information about storage conditions:

None.

### 7.2.5. Specific end use(s)

No further relevant information available.



### 7.2.6. 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

None.

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

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

### 8.4. Exposure controls

No information available.

### 8.5. Personal protective equipment

#### 8.5.1. General protective and hygienic measures

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

#### 8.5.2. 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.

#### 8.5.3. Protection of hands

Protective gloves.

##### 8.5.3.1. 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.

#### 8.5.4. Eye protection

Safety glasses.



## 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Fluid
Colour	Colourless
Odour	Odourless
Odour threshold	Not determined
pH-value	Not determined
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	Not determined
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	Not determined
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.

### 10.4.2. Possibility of hazardous reactions

None known based on information supplied.

## 10.5. Conditions to avoid

None known based on information supplied.

## 10.6. Incompatible materials

None known based on information supplied.

## 10.7. Hazardous decomposition products

None known based on information supplied.

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# 11. Toxicological information

Information on toxicological effects

## 11.1. Numerical measures of toxicity

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

ATEmix (oral): 538,895 mg/kg

ATEmix (dermal): 79,691 mg/kg

Unknown acute toxicity 4.2 % of the mixture consists of ingredient(s) of unknown toxicity.

0.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

4.2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

4.2 % 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

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:**

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**

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

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

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

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.

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## **12. Ecological information**

### **12.1. Toxicity - 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. Additional ecological information - 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: No further relevant information available.
- vPvB: No further relevant information available.

## 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 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.

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# 14. Transport information

## 14.1. IMDG

### 14.1.1. Marine pollutant

Not applicable

### 14.1.2. UN number

Not regulated

### 14.1.3. Proper shipping name

Not regulated



#### **14.1.4. Packing group**

Not regulated

#### **14.1.5. Special Provisions**

Not regulated

#### **14.1.6. Special precautions for user**

Not applicable

#### **14.1.7. Transport/Additional information**

Not dangerous according to the above specifications

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

Not applicable

### **14.2. RID**

#### **14.2.1. UN/ID No**

Not regulated

#### **14.2.2. Proper shipping name**

Not regulated

#### **14.2.3. Transport hazard class(es)**

Not regulated

#### **14.2.4. Packing group**

Not regulated

#### **14.2.5. Environmental hazard**

Not applicable

#### **14.2.6. Special Provisions**

None

### **14.3. ADR**

#### **14.3.1. UN number**

Not regulated

#### **14.3.2. Proper shipping name**

Not regulated

#### **14.3.3. Transport hazard class(es)**

Not regulated



#### **14.3.4. Packing group**

Not regulated

#### **14.3.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

None

### **14.4. IATA**

#### **14.4.1. UN number**

Not regulated

#### **14.4.2. Proper shipping name**

Not regulated

#### **14.4.3. Transport hazard class(es)**

Not regulated

#### **14.4.4. Packing group**

Not regulated

#### **14.4.5. Environmental hazard**

Not applicable

#### **14.3.6. Special Provisions**

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. National regulations**

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

Class Share in %: NK 10-20

##### **15.1.1.2. Technical instructions (air)**

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



#### **15.1.1.3. Technical instructions (air)**

A Chemical Safety Assessment has not been carried out.

#### **15.1.2. 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.

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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.



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