



## BlueStar Prestained Protein Marker

| Cat. No. | Product                            | Content |
|----------|------------------------------------|---------|
| MWP03    | BlueStar Prestained Protein Marker | 0.5 mL  |

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

#### 1.1. Name of the substances or preparations

BlueStar Prestained Protein 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 a

52349 Düren

Germany

#### 1.4. Emergency telephone contact

+49 2421/554960

### 2. Hazards identification

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.

#### 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.

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## 3. Composition/information about the components

### 3.1. Mixtures

#### 3.1.1. Chemical characterization

Solution, consisting of the following components.

| Chemical               | EC No.    | CAS No.   | Content  | Classification |
|------------------------|-----------|-----------|----------|----------------|
| Glycerol               | 200-289-5 | 56-81-5   | 15%(v/v) | not relevant   |
| Sodium dodecyl sulfate | 205-788-1 | 151-21-3  | 2%       | not relevant   |
| Urea                   | 200-315-5 | 57-13-6   | 3.6M     | not relevant   |
| Tris- Phosphate        | 230-260-2 | 6992-39-8 | 20mM     | not relevant   |
| Dithiothreitol (DTT)   | 222-468-7 | 3483-12-3 | 1mM      | not relevant   |

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

#### 3.1.2. 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. Inhalation

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



#### 4.1.2. Skin contact

If symptoms of irritation after prolonged exposure occur, consult a doctor.

#### 4.1.3. 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.

#### 4.1.4. Ingestion

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

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## 5. In case of fire

The preparation 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.



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## 6. In case of spillage

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

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 and materials for containment and cleanup

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.

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## 7. Handling and storage

### 7.1. Safe handling

No further requirements.

#### 7.1.1. Information on safe use

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

### 7.2. Safe storage

#### 7.2.1. Storage conditions

Store at - 20°C.



## 8. Exposure controls/personal protection

None other specific requirements relating to the preparation.

### 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. Exposure controls

#### 8.2.1. General protective and hygienic measures

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

#### 8.2.2. Engineering measures

None specific requirements relating to the preparation.

#### 8.2.3. Personal protection

##### 8.2.3.1. Respiratory protection



No special measures required.

##### 8.2.3.2. Hand protection



Wear rubber gloves. None special requirements to rubber.

##### 8.2.3.3. Eye protection



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



#### 8.2.3.4. Skin protection

The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                      |   |
|--------------------------------------|---|
| Appearance                           | Liquid  |
| Colour                               | Blue  |
| Odour                                | Odorless or weak pH-value at 25°C: ~7.5               |
| Boiling point                        | ~ 100 °C  |
| Flash Point                          | Not applicable  |
| Flammability / autoflammability      | The preparation is not flammable/self-igniting.       |
| Explosive properties                 | The preparation does not possess explosive properties |
| Oxidizing properties                 | Not applicable  |
| Vapor pressure                       | Not applicable  |
| Relative density at 20°C             | ~1 g/cm <sup>3</sup> .                                |
| Solubility in/miscibility with water | Fully miscible  |
| Fat solubility                       | Not applicable  |
| Vapor density                        | Not applicable  |
| Evaporation rate                     | Not applicable  |
| Conductivity                         | Not applicable  |
| Viscosity                            | Not viscous   |

## 10. Stability and reactivity

### 10.1. Chemical stability

Stable under storage conditions (see Section 7).

### 10.2. Possibility of hazardous reactions

No dangerous reactions known.



### 10.3. Conditions to avoid

No conditions which may cause dangerous reactions.

### 10.4. Materials to avoid

Strong oxidizing agents, strong bases.

### 10.5. Hazardous decomposition products

No dangerous decomposition products known.

### 10.6. Hazardous polymerization

Will not occur.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1. Routes of exposure

##### 11.1.1.1. Inhalation

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

##### 11.1.1.2. Ingestion

Repeated ingestion or excessive dosage may be irritating.

##### 11.1.1.3. Skin and eye contact

Prolonged contact may cause irritation.

#### 11.1.2. Additional toxicological information

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



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## 12. Ecological information

### 12.1. Ecotoxicity

The preparation 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 preparation is readily biodegradable.

### 12.3. Bioaccumulative potential

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

### 12.4. Other adverse effects

Not applicable.

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## 13. Disposal considerations

The disposal of the product does not present a danger.

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

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## 14. Transport information

### 14.1. Special precautions

None known.

### 14.2. Proper shipping name

Not dangerous goods according to transport regulations.

### 14.3. Transport regulations

No additional transport regulations are known to the supplier.





|                  |                                  |
|------------------|----------------------------------|
| <b>IMDG</b>      | Non-hazardous for sea freight    |
| <b>ADR</b>       | Non-hazardous for road transport |
| <b>RID</b>       | Non-hazardous for rail transport |
| <b>ICAO/IATA</b> | Non-hazardous for air transport  |

## 14.4. Other information

The preparation may be stored in ice during the transportation.

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## 15. Regulatory information

### 15.1. US

#### 15.1.1. Labelling according to US Regulations

Caution: avoid contact and inhalation.

#### 15.1.2. US Regulatory information

SARA LISTED: No.

### 15.2. EU

#### 15.2.1. Labelling according to EU Guidelines

The preparation 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.

### 15.3. Canada

#### 15.3.1. 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.

#### 15.3.2. DSL

No.

#### 15.3.3. NDSL

No.



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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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