

## Midori Green Xtra TAE Agarose Tablets

Safety Data Sheet according to Annex II of the Regulation (EC) No. 1907/2006 (REACH), amended by the Regulation (EU) 2015/830 and 2018/675

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Name: Midori Green Xtra TAE Agarose Tablets  
 Cat. No.: AG13  
 EC Substance name: not available  
 CAS Number: not available  
 EC Number: not available  
 REACH Reference Number: not available

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Suitable for use as DNA/RNA stain for electrophoresis.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: NIPPON Genetics EUROPE GmbH  
 Binsfelder Straße 77  
 D- 52351 Düren, Germany  
 Phone.: +49 (0) 2421 / 554960  
 Fax: +49 (0) 2421 / 5549611  
 E-Mail: [info@nippongenetics.de](mailto:info@nippongenetics.de)  
 Internet: [www.nippongenetics.eu](http://www.nippongenetics.eu)

Information on further details at: Technical Support  
 Phone: +49 (0) 2421 / 554960  
 Fax: +49 (0) 2421 / 5549611  
 E-Mail: [sdb@nippongenetics.de](mailto:sdb@nippongenetics.de)

#### 1.4 Emergency telephone no:

Emergency information: Phone: +49 (0) 2421 / 554960  
 Within the business hours: Monday to Friday, 8 a.m. to 5 p.m.

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to the Regulation (EC) No. 1272/2008 (GHS/CLP):**

H315 Skin irritation (Category 2)  
 H319 Serious eye irritation (category 2)

**Classification according to EU Directives 67/548/EC or 1999/45/EC (DSD/DPD)**

Xi Irritant R36/38

#### 2.2 Labelling elements

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

**Substance on the label:** Midori Green Xtra Agarose Tablets

**Pictograms:**



**Signal word:** Warning

H319/335/315: May cause eye, skin and respiratory tract irritation.  
 H302: Harmful if swallowed  
 P201: Obtain special instruction before use.  
 P280: Wear protective clothing (gloves, eye or face protection)  
 P301 + P312: IF SWALLOWED: call poison center or doctor of you feel unwell

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P302 + P352	IF ON SKIN: Wash with plenty of water
P302 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	If exposed or concerned: Get medical supplemental advice / attention.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s) Xi irritant



R-phrases

R22

Harmful if swallowed

R36/38

Irritation to eyes, irritating to skin

S-Phrases

S53

Avoid exposure – obtain special instructions before use

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 2.3 Other hazards:

**Hazards deriving from physical-chemical properties:** The data available do not support any physical or chemical hazard, but not flammable.

**Human health hazards:** May be irritating to eyes, respiratory system and skin.

\* Caution: Avoid inhalation, ingestion and skin contacts.

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

## 3. Composition / information on ingredients:

3.1 **Substances:** Powder with inorganic components

**Product name:** Midori Green Xtra TAE Tablets

3.2 **Mixtures:**

**Chemical characterization:**

Powder with inorganic components

Chemical name	EC No.	CAS No.	Content	Classification according to	Classification according to regulation(EC) No. 1272/208
Active ingredients of Midori Green Xtra*	Not available	Not available	<1%	Not classified as hazardous	Not classified as hazardous
Agarose	232-731-8	Not available	65%	Not classified	Not classified as hazardous

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Tris Acetat EDTA (TAE) buffer	Not available	Not available	35%	Not classified as hazardous	Not classified as hazardous
Tris (hydromethyl) aminomethane	201-064-4	77-86-1	75 – 80% of TAE buffer	Xi, R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319
Na <sub>2</sub> EDTA x 2H <sub>2</sub> O	205-358-1	6381-92-6	5 – 6% of TAE buffer	Xn, R22/38	Acute Tox 4; H302 Eye Irrit. 2; H319
Acetic acid	200-580-7	64-19-7	15 – 20% of TAE buffer	Xi, R36/38	Skin Irrit. 2; H315 Eye Irrit. 2, H319

\* No components need to be disclosed according to the applicable regulations.

The wordings of the H statements are listed in section 16.

## 4. First aid measures

### 4.1 Description of the first aid measures:

#### 4.1.1 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.

#### 4.1.2 Inhalation:

Remove the affected person to fresh air, bring to rest position, keep warm. If complains and symptoms occur seek medical advice.

#### 4.1.3 Skin contact:

At contact with the skin immediately wash with much water. If complains and symptoms occur seek medical advice.

#### 4.1.4 Eyes contact:



Thoroughly wash the eyes on spread lids with flowing fresh water for 15 minutes, previously remove contact lenses if possible. Provide ophthalmological treatment.

#### 4.1.5 Ingestion:

Don't induce vomiting. Let rinse the mouth, let spit of the liquid and give 100 – 200 mL of water to drink. If complains and symptoms occur seek medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed:

No symptoms known

### 4.3 Indication of any immediate medical attention and special treatment needed:

Not needed.

## 5. Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media:

Product is not inflammable. Water spry, Carbon dioxide (CO<sub>2</sub>), dry chemical powder or appropriate foam.

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### Not suitable extinguishing media for safety reasons:

None

### 5.2 Special hazards arising from decomposition products:



Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Composition Products: Carbon dioxide

### 5.3 Advice for fire fighters:



Use a self-contained breathing apparatus (SCBA) at poor ventilation and in closed rooms. Wear protection clothing. Adapt the extinguishing media and fire-fighting measures to the environment.

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## 6. Accidental release measures

### 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:

Do not allow to enter sewers / surface waters / ground water. Remove fire residues and contaminated aqueous wastes in suitable containers and dispose of them in a controlled manner.

### 6.3 Methods and material for containment and cleaning up:

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

### 6.4 Reference to other sections:

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

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## 7. Handling and storage

### 7.1 Precautions for 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.

#### 7.1.2 Information on fire and explosion protection:

No special measures needed.

#### 7.1.3 Handling rules:

On workplaces only keep available amounts necessary for work progress. Don't leave receptacles stand open. Avoid spilling, preferable handle with non-breakable receptacles or use suitable protection containers on transportation of breakable receptacles.

### 7.2 Conditions for safe storage considering incompatibilities:

#### 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 4 ° C recommended. Keep away from sunlight.

#### 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:

Contains no relevant quantities of substances with occupational exposure limit values that have to be monitored at the workplace according to TRGS 900.

### 8.2 Exposure controls:

#### 8.2.1 Personal protection:

##### Respiratory protection:



No respiratory protection is necessary when working with the small quantities intended for the product. In case of exceptional operating conditions, working with larger quantities and with the risk of aerosol formation use suitable respiratory protection, e.g. half-masks according to EN 140 with filters according to EN 143-P1. Observe wearing time limit.

##### Hand protection:



Wear rubber gloves. No special requirements to rubber.

##### Eye protection:



Eye protection goggles with side protection (EN 166).

##### Skin protection



Use clothing usual 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.

##### Body protection:



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

##### 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.

#### 8.2.2 Limitation of the environmental exposure:

Avoid leaks and spills.

#### 8.2.3 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

#### 9.1.1 Appearance:

Physical status: powder in tablet form

Color: white to yellow

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Odor: no data available

### 9.1.2 Fundamental data relevant for security:

Parameter	Data
pH value at 25°C	Nax pH 8.5
Boiling point	No data available
Evaporation rate (water=1)	n.a.
Flash point	No data available
Self-ignition temperature	n.a.
Vapor pressure at 20°C	n.a.
Density	No data available
Vapor density (air=1)	n.a.
Water solubility at 20 °C	Fully miscible
Fat solubility	n.a.
Viscosity	n.a.
Oxidizing properties	n.a.
Conductivity	n.a.

n.a.: not applicable

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.

### 10.4 Conditions to avoid:

No conditions which may cause dangerous reactions.

### 10.5 Incompatible materials:

No in particular.

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## 11. Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Acute toxicity:

**Inhalation:** Aerosols may cause allergic type reactions in sensitized individuals.

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

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

#### 11.1.2 Corrosive and irritation effects:

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No data available.

### 11.1.3 Sensitizing effects:

No data available.

### 11.1.4 Subacute and chronic toxicity:

May cause injury to the liver and kidneys.

### 11.1.5 Carcinogenicity, mutagenicity and reproduction toxicity:

No cytotoxic or mutagenic effects could be detected. See Safety Report of Midori Green Xtra (Ames and Cytotoxicity Test)

### 11.1.6 Experience from practise:

See Safety Report of Midori Green Xtra (Ames and Cytotoxicity Test)

### 11.1.7 General remarks:

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

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## 12. Ecological information

**12.1 Toxicity:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can make harmful or damaging effects on the environment.

### 12.2 Persistence and degradability:

**Biological degradation:** No data available.

**Abiotic degradation:** No data available.

**12.3 Bio-accumulation potential:** No data available.

### 12.4 Mobility in soil:

**Absorption/Desorption:** No data available.

**12.5 Volatility:** 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:

No data available.

#### 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.



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### 13. Disposal considerations

#### 13.1 Waste treatment methods:

##### 13.1.1 Product:

Dispose of in accordance with local regulations.

##### 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.

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### 14. Transport information

**14.1 INDG/IMO:** Non-hazardous for sea freight.

**14.2 RID:** Non-hazardous for rail transport.

**14.3 ARD:** Non-hazardous for road transport.

**14.4 ICAO/IATA:** Non-hazardous for air transport.

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### 15. Regulatory information

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

No information available.

#### 15.2 Chemical safety assessment:

No information available.

#### 15.3 Regulatory information:

##### US:

**Labelling according to US Regulations:** No information available

**US Regulatory information: SARA LISTED: No.**

##### EU:

**Labelling according to EU Guidelines:** The preparation is not dangerous within the meaning of Directives 67/548/EC, is not labelled with danger symbols or indications of danger.

##### Canada:

**WHMIS classification:** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all information required by the CPR.

**DSL:** No.

**NDSL:** No.

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### 16. Other information

#### 16.1 Full text of H and P-phrases referred to under section 3

H302	– Harmful if swallowed
Eye Irrit.	– Eye irritation
H319	– Causes serious eye irritation
Skin Irrit.	– Skin irritation
H315	– Causes skin irritation
H335	– May cause respiratory irritation
T	– Toxic
R22	– Harmful if swallowed
R36/38	– Irritating to eyes and skin
Xi	– Irritant

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Xn – Harmful

### 16.2 Hazard Ratings:

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	2	2	0	0

Hazard rating: 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe

NFPA Label colored diamond code: Blue – Health, Red – Flammability; Yellow – Instability, White – Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	2	2	0	B

Hazard rating: 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe \* - Chronic Health Effect

Personal Protection code: B – Safety Glasses, Gloves

HMIS Label colored diamond code: Blue – Health, Red – Flammability; Orange – Physical Hazards, White – Special

### 16.3 Recommended use restriction:

Not recommended for consumer's use.

### 16.4 Amended information and reason for amendment:

Actual version:	Version number	1.0	Datum:	28.11.2019
Kind of amendment:	New document			
Reason for amendment:				

### 16.5 Remarks:

This information is only intended to describe the safety requirements of the product and is based on the present state of our knowledge. They do not constitute a guarantee for the characteristics of the product described in the sense of the statutory warranty regulations. Please refer to the respective product data sheets for the delivery properties. If the product mentioned in this Material Safety Data Sheet is blended, mixed or processed with other materials, the data in this Material Safety Data Sheet may not be transferred to the new material, unless otherwise specified. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.

**End of MSDS**