

Material Safety Data Sheet  
Version No.: 3.0(09-06-2020)

# 10X reaction buffer without MgCl<sub>2</sub> for ProFi Taq DNA polymerase

## 1. PRODUCT AND COMPANY INFORMATION

**Product Name** : 10X reaction buffer without MgCl<sub>2</sub> for ProFi Taq DNA polymerase

**Product Number** : N/A(buffer)

**Product Use** : For research use only and are not intended for human or animal diagnostics,  
therapeutic , or other clinical uses, unless otherwise stated.

**Company**

Bioneer corporation

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## 2. HAZARDS IDENTIFICATION

**GHS** – None

**Pictogram** : None

**Signal Word** : None

**Hazard statements**: None

**Precautionary statements**: None

## 3. Composition/Information on Ingredient

CAS No.	Component name	weight(%)
77-86-1	TRIS Base	4.5~4

7447-40-7	Potassium Chloride	4~5
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Note: The CAS number listed above is for Tris. HCl (< 1%) was added to the Tris to alter the pH level.

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

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## 4. FIRST AID MEASURES

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### Eye contact

- Rinse opened eye for several minutes under running water.

### Skin contact

- Wash skin with soap and copious amount of water.

### Inhaled

- Move to fresh air

### Swallowed

- If symptoms persist consult doctor.
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## 5. Firefighting measures

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### Suitable extinguishing media

- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

- No further relevant information available.

### Advice for firefighters

- Wear self contained breathing apparatus for fire fighting if necessary.
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## 6. Accidental release measures

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### Personal precautions, protective equipment and emergency procedures

- Avoid breathing or contact with vapors, mist of gas.

### Environmental precautions

- Do not let product enter drains.

### Methods and materials for containment and cleaning up

- Keep in suitable, closed containers for disposal.
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## 7. Handling and storage

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### Precautions for safe handling

- No special measures required.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Normal measures for preventive fire protection.

### Conditions for safe storage, including any incompatibilities

- Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
  - Recommended storage temperature: –20 °C
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## 8. Exposure controls/personal protection

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### Appropriate engineering controls

– Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Respiratory protection

- Respiratory protection not required.

#### Eye/face protection

- Goggles recommended during refilling.

#### Skin protection

- Handle with gloves.

#### Body Protection

- impervious clothing
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## 9. Physical and chemical properties

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**Appearance** : form – liquid

colour – colorless

**Odour** : odourless

**Odour Threshold** : no data available

**pH** : 9.0

**Melting point/freezing point** : no data available

**Initial boiling point and boiling range** : no data available

**Flash point** : no data available

**Evaporation rate** : no data available

**Flammability (solid, gas)** : no data available

**Upper/lower flammability or explosive limits** : no data available

**Vapour pressure** : no data available

**Vapour density** : no data available

**Relative density** : no data available

**Partition coefficient: noctanol/water** : no data available

**Auto-ignition temperature** : no data available

**Decomposition temperature** : no data available

**Viscosity** : no data available

**Explosive properties** : no data available

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## 10. Stability and reactivity

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**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : no data available

**Conditions to avoid** : no data available

**Incompatible materials** : no data available

**Hazardous decomposition products** : no data available

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## 11. Toxicological information

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**Acute toxicity** : no data available

**Skin corrosion/irritation** : no data available

**Serious eye damage/eye irritation** : no data available

**Respiratory sensitisation** : no data available

**skin sensitisation** : no data available

**Carcinogenicity** : 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

**Germ cell mutagenicity** : no data available

**Specific target organ toxicity – single exposure** : no data available

**Specific target organ toxicity – repeated exposure** : no data available

**Aspiration hazard** : no data available

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## 12. Ecological information

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**Toxicity** : no data available

**Persistence and degradability** : no data available

**Bioaccumulative potential** : no data available

**Mobility in soil** : no data available

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## 13. Disposal considerations

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**Waste treatment methods** : Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging** : Dispose of as unused product.

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## 14. Transport information

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**UN number** : no data available

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class** : no data available

**Packaging group** : no data available

**Environmental hazards** : no data available

**Special precautions for user** : no data available

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## 15. Regulatory information

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

no data available

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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## 16. Other information

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**Material source**

Korea Occupational Safety and Health Agency, National Chemicals Information System

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**Further information**

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. BIONEER is not held liable for any damage resulting from handling or from contact with the above products.

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