SAFETY DATA SHEET

Protein 200 Plus LabChip Kit PN 5065-4480

1. Identification of the substance/preparation and company/undertaking

Identification of the substance or preparation
Product name: Protein 200 Plus LabChip Kit PN 5065-4480
Part No. : Protein 200 Plus Reagent Kit PN 5065-4481

Company/undertaking identification
Manufacturer / Supplier: Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany

Emergency telephone number: Contact your local Poison Center

2. Composition/information on ingredients

Substance/preparation: Protein 200 Plus Reagent Preparation Kit PN 5065-4481

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>%</th>
<th>EC number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein 200 Plus Reagent Kit PN 5065-4481</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spin Filters</td>
<td></td>
<td>100</td>
<td></td>
<td>Not classified.</td>
</tr>
<tr>
<td>Protein Gel Matrix (Red Cap)</td>
<td></td>
<td>100</td>
<td></td>
<td>Not classified.</td>
</tr>
<tr>
<td></td>
<td>sulfuric acid, monododecyl ester, lithium salt</td>
<td>2044-56-6</td>
<td>0.9 - 1</td>
<td>218-058-2</td>
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<tr>
<td>Protein Dye Concentrate (Blue Cap)</td>
<td></td>
<td>100</td>
<td></td>
<td>Not classified.</td>
</tr>
<tr>
<td>Protein Ladder (Yellow Cap)</td>
<td></td>
<td>100</td>
<td></td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

Use of the substance/preparation: Not available.

Use of the substance/preparation: Analytical Standards

Chemical family: Not available.

Synonyms: Not available.

Date of issue: 10/26/2005.
3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification**
- Protein 200 Plus Reagent Not classified. Kit PN 5065-4481

**Physical/chemical hazards**
- Protein 200 Plus Reagent Not applicable. Kit PN 5065-4481

**Human health hazards**
- Protein 200 Plus Reagent Kit PN 5065-4481 Not applicable.

**Environmental hazards**
- Protein 200 Plus Reagent Kit PN 5065-4481 Not applicable.

See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

**First-aid measures**

**Inhalation**
- Protein 200 Plus Reagent If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if adverse health effects persist or are severe. Kit PN 5065-4481

**Ingestion**
- Protein 200 Plus Reagent Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if adverse health effects persist or are severe. Kit PN 5065-4481

**Skin contact**
- Protein 200 Plus Reagent In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if adverse health effects persist or are severe. Kit PN 5065-4481

**Eye contact**
- Protein 200 Plus Reagent In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe. Kit PN 5065-4481

**Specific treatments**

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

**Extinguishing media**

**Suitable**
- Use an extinguishing agent suitable for the surrounding fire.

**Not suitable**
- Protein 200 Plus Reagent Not applicable. Kit PN 5065-4481

**Special exposure hazards - Explosibility**
- No specific hazard.

**Special protective equipment for fire-fighters**
- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

**Personal precautions**
- Protein 200 Plus Reagent Avoid contact with eyes, skin and clothing. Kit PN 5065-4481

**Environmental precautions**
- Protein 200 Plus Reagent Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Kit PN 5065-4481

**Methods for cleaning up**
- Protein 200 Plus Reagent If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal. Kit PN 5065-4481

Date of issue : 10/26/2005.
7. Handling and storage

Handling : Protein 200 Plus Reagent Wash thoroughly after handling. Kit PN 5065-4481

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Packaging materials

Recommended : Use original container.

8. Exposure controls/personal protection

Exposure limit values : Not available.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

Occupational exposure controls : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information

Appearance

Physical state : Protein 200 Plus Reagent Liquid. Kit PN 5065-4481

Colour : Protein 200 Plus Reagent Not available. Kit PN 5065-4481

Odour : Not available.

Important health, safety and environmental information

pH : Protein 200 Plus Reagent Not available. Kit PN 5065-4481

Boiling point : Protein 200 Plus Reagent The lowest known value is 100°C (212°F) (water). Kit PN 5065-4481

Melting point : Protein 200 Plus Reagent May start to solidify at 0°C (32°F) based on data for: water. Kit PN 5065-4481

Date of issue : 10/26/2005.
9. Physical and chemical properties

- **Flash point**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Flammability (solid, gas)**: Protein 200 Plus Reagent Not applicable. Kit PN 5065-4481
- **Explosive properties**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Explosion limits**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Oxidising properties**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Vapour pressure**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Relative density**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Solubility**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Vapour density**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Evaporation rate (butyl acetate = 1)**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Auto-ignition temperature**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481

10. Stability and reactivity

- **Stability**: The product is stable.
- **Conditions to avoid**: Protein 200 Plus Reagent Kit PN 5065-4481 Not available.
- **Materials to avoid**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481
- **Hazardous decomposition products**: Protein 200 Plus Reagent Not available. Kit PN 5065-4481

11. Toxicological information

- **Potential acute health effects**
  - **Inhalation**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Ingestion**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Skin contact**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Eye contact**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481

- **Potential chronic health effects**
  - **Carcinogenicity**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Mutagenicity**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Reproductive toxicity**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481

- **Over-exposure signs/symptoms**
  - **Inhalation**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Ingestion**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481
  - **Skin**: Protein 200 Plus Reagent No known significant effects or critical hazards. Kit PN 5065-4481

Date of issue: 10/26/2005.
11. Toxicological information

**Target organs**
Protein 200 Plus Reagent Not available.
Kit PN 5065-4481

**Other adverse effects**
Protein 200 Plus Reagent Not available.
Kit PN 5065-4481

12. Ecological information

**Mobility**
Protein 200 Plus Reagent Not available.
Kit PN 5065-4481

**Other adverse effects**
Protein 200 Plus Reagent No known significant effects or critical hazards.
Kit PN 5065-4481

13. Disposal considerations

**Methods of disposal**
Protein 200 Plus Reagent The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Kit PN 5065-4481

**European waste catalogue (EWC)**
Protein 200 Plus Reagent Not available.
Kit PN 5065-4481

**Hazardous waste**
Protein 200 Plus Reagent Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
Kit PN 5065-4481

14. Transport information

Not regulated.

15. Regulatory information

**EU regulations**

**Hazard symbol/symbols**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

**Risk phrases**
Protein 200 Plus Reagent This product is not classified according to EU legislation.
Kit PN 5065-4481

**Safety phrases**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

**Product use**
Protein 200 Plus Reagent Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Consumer applications.
Kit PN 5065-4481

**Other EU regulations**

**Additional warning phrases**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

**Child protection**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

**Tactile warning of danger**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

**Restrictions on the Marketing and Use Directive**
Protein 200 Plus Reagent Not applicable.
Kit PN 5065-4481

16. Other information

**History**

**Date of printing**

**Date of issue**

**Date of previous issue**
No previous validation.

**Version**
0.01

**Notice to reader**

Date of issue 10/26/2005.
16. Other information

DISCLAIMER: This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing the suitability of the Product for a particular application.

Indicates information that has changed from previously issued version.