

---

## MATERIAL SAFETY DATA SHEET

---

### 1. Product and Company Information

Product Name : *AccuRapid*<sup>TM</sup> Cell-Free Protein Expression Kit

Product Number : K-7250

Company : BIONEER CORPORATION

49-3, Munpyeong-dong, Daedeok-gu,

Daejeon 306-220

Technical Phone : +82-1588-9788

Fax : +82-42-930-8600

---

### 2. Composition / Information on Ingredients

Trade name : *AccuRapid*<sup>TM</sup> Master mix

Chemical characterization : Mixture

Description : Mixture of the substances listed below with nonhazardous additions.

Trade name : *AccuRapid*<sup>TM</sup> *E.coli* extract

Chemical characterization

Description : Mixture of the substances listed below with nonhazardous additions.

---

### 3. Hazards identification

This product contains no substances which at their given concentration, are considered to be hazardous to health.

---

### 4. First Aid Measures

#### AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

#### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

---

### 5. Fire Fighting Measures

#### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

---

### 6. Accidental Release Measures

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal.

Ventilate area and wash spill site after material pickup is complete.

---

## 7. Handling and Storage

### HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Trade name : *AccuRapid*<sup>TM</sup> Master mix

Conditions of Storage: Keep tightly closed.

Store at -20°C

Trade name : *AccuRapid*<sup>TM</sup> *E.coli* extract

Conditions of Storage: Keep tightly closed.

Store at -70°C

---

## 8. Exposure controls/personal protection

### Engineering controls

Safety shower and eye bath. Mechanical exhaust required.

### General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Personal Protective Equipment

Protection of hands : Protective gloves

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Eye protection : Safety glasses

---

## 9. Physical and Chemical Properties

Trade name : *AccuRapid*<sup>TM</sup> Master mix

Form: Fluid

Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Danger of explosion: Product does not present an explosion hazard.

Vapor pressure at 20°C (68°F): Not determined.

Density: Not determined.

Solubility in / Miscibility with Water: Fully miscible.

Trade name : *AccuRapid*<sup>TM</sup> *E.coli* extract

Form: Fluid

Odor: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Flash point: Not applicable.

Danger of explosion: Product does not present an explosion hazard.

Vapor pressure at 20°C (68°F): Not determined.

Density: Not determined.

Solubility in / Miscibility with Water: Fully miscible.

---

---

## 10. Stability and Reactivity

### STABILITY

Stable: Stable.

### Materials to Avoid

No information available.

### HAZARDOUS DECOMPOSITION PRODUCTS

No information available.

### HAZARDOUS POLYMERIZATION

Will not occur.

---

## 11. Toxicological Information

### SIGNS AND SYMPTOMS OF EXPOSURE

No information available

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

---

## 12. Ecological Information

No data available.

---

## 13. Disposal Considerations

Dispose of in accordance with local regulations.

---

## 14. Transport Information

### RID/ADR

Non-hazardous for road transport.

### IMDG

Non-hazardous for sea transport.

### IATA

Non-hazardous for air transport.

---

## 15. Regulatory Information

Not hazardous according to Directive 67/548/EEC

---

## 16. Other Information

### WARRANTY

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 information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BIONEER Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.

### DISCLAIMER

For R&D use only. Not for drug, household or other uses.