

# Material Safety Data Sheet

according to ISO 11014-1 — 93/112/EC.

## Dulbecco's Modified Eagle's Medium/ High Modified

with 4500 mg/L dextrose, with 110 mg/L sodium pyruvate, without L-glutamine, without phenol red

CATALOG NO. 51449

Observe all Import Permit requirements and normal safety regulations.

### Section I – Identification of Substance

**Product Name:**

Dulbecco's Modified Eagle's Medium/High Modified,  
with 4500 mg/L dextrose, with 110 mg/L sodium pyruvate, without L-glutamine, without phenol red

**Product Number:**

51449

### Section II – Composition/Data on Components

**Product Classification:**

Liquid Cell Culture Media

The subject formulation is a nutrient blend of amino acids, vitamins, carbohydrates, organic and inorganic supplements and salts. With the exception of purified water, all ingredients are in concentrations of less than 1%.

### Section III – Hazards Identification

Not applicable.

### Section IV – First Aid Measures

**Eye Contact:**

In case of contact with eyes, flush thoroughly with water and contact a physician.

**Ingestion:**

In case of accidental swallowing, rinse the mouth with fresh water provided the person is conscious. Contact a physician.

**Inhalation:**

If inhaled, remove to fresh air. If breathing becomes difficult, give oxygen. If not breathing, give artificial respiration.  
Contact a physician.

**Skin Contact:**

In case of contact with skin, wash the affected area with copious quantities of soap and water.  
Should irritation occur, contact a physician.

### Section V – Fire Fighting Measures

**Extinguishing Media:**

Water spray, dry chemical powder or appropriate foam. Wear self-contained breathing apparatus and protective clothing.  
Avoid contact with skin or eyes.

### Section VI – Accidental Release Measure

Place in a closed container and hold for waste disposal. Wash area thoroughly after clean-up is complete.

---

**United States**

SAFC Biosciences, Inc.  
13804 W. 107th Street  
Lenexa, Kansas 66215  
USA  
Phone +1 913-469-5580  
Toll free-USA 1 800-255-6032  
Fax +1 913-469-5584  
E-mail info-na@sial.com

**Europe**

SAFC Biosciences Ltd.  
Smeaton Road, West Portway  
Andover, Hampshire SP10 3LF  
UNITED KINGDOM  
Phone +44 (0)1264-333311  
Fax +44 (0)1264-332412  
E-mail info-eu@sial.com

**Asia Pacific**

SAFC Biosciences Pty. Ltd.  
18-20 Export Drive  
Brooklyn, Victoria 3025  
AUSTRALIA  
Phone +61 (0)3-9362-4500  
Toll free-AUS 1 800-200-404  
Fax +61 (0)3-9315-1656  
E-mail info-ap@sial.com

## Section VII – Handling and Storage

### Handling:

Wear safety glasses or goggles, protective clothing and chemical-resistant gloves.

### Store at:

2 to 8 C. Protect from light.

## Section VIII – Exposure Controls and Personal Protection

### Eye Protection:

Safety glasses or goggles required.

### Protective Gloves:

Chemical-resistant gloves required.

### Respiratory Protection:

Respirator or protective mask recommended.

### Ventilation:

Mechanical (general) or local exhaust required.

### Other Protection Equipment:

Safety shower and eye bath.

## Section IX – Physical and Chemical Properties

### Appearance:

Clear light yellow solution

### pH:

7.0 - 7.4

## Section X – Stability and Reactivity

Stable. Hazardous Polymerization will not occur.

## Section XI – Toxicological Information

### Primary Irritant Effect:

This product is a potential irritant to eyes, respiratory system and skin. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined.

### Intended Use:

For further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

## Section XII – Ecological Information

Not Available.

## Section XIII – Disposal Considerations

### Waste Disposal:

Follow all official regulations for chemical waste disposal.

## Section XIV – Transport Information

Not Applicable.

## Section XV – Regulatory Information

Observe the normal safety regulations when handling this material.

## Section XVI – Other Information

The information, data and recommendations contained herein are believed to be accurate but may not be all-inclusive and should only be used as a guide. SAFC Biosciences makes no warranty of any kind whatsoever with respect thereto and disclaims all liability from reliance thereon. We reserve the right to revise this MSDS periodically as new information becomes available.

### Warranty, Limitation of Remedies

SAFC Biosciences warrants to the purchaser for a period of one year from date of delivery that this product conforms to its specifications. Other terms and conditions of this warranty are contained in SAFC Biosciences' written warranty, a copy of which is available upon request. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. In no case will SAFC Biosciences be liable for any special, incidental, or consequential damages arising out of this product or the use of this product by the customer or any third party based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. SAFC Biosciences expressly disclaims any warranty against claims by any third party by way of infringement or the like. THIS PRODUCT IS INTENDED FOR PURPOSES DESCRIBED ONLY AND IS NOT INTENDED FOR ANY HUMAN OR THERAPEUTIC USE.

Additional Terms and Conditions are contained in the product Catalog, a copy of which is available upon request.

© 2006 SAFC Biosciences, Inc.

Issued February 2006 MEU51449

### United States

SAFC Biosciences, Inc.  
13804 W. 107th Street  
Lenexa, Kansas 66215  
USA

Phone +1 913-469-5580  
Toll free-USA 1 800-255-6032  
Fax +1 913-469-5584  
E-mail info-na@sial.com

### Europe

SAFC Biosciences Ltd.  
Smeaton Road, West Portway  
Andover, Hampshire SP10 3LF  
UNITED KINGDOM

Phone +44 (0)1264-333311  
Fax +44 (0)1264-332412  
E-mail info-eu@sial.com

### Asia Pacific

SAFC Biosciences Pty. Ltd.  
18-20 Export Drive  
Brooklyn, Victoria 3025  
AUSTRALIA

Phone +61 (0)3-9362-4500  
Toll free-AUS 1 800-200-404  
Fax +61 (0)3-9315-1656  
E-mail info-ap@sial.com