

# Material Safety Data Sheet

Issuance Date: 09/18/2012

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name:** X-alpha-Gal

**Product Code(s):** 630463/630462/630407

**Identified Uses:** For research use only. Not for use in diagnostic procedures.

**Supplier Address:** USA:  
Clontech Laboratories, Inc.  
A Takara Bio Company  
1290 Terra Bella Avenue  
Mountain View, CA 94043  
Phone: 800.662.2566/888.251.6618  
Web: www.clontech.com

**Emergency Telephone:** In case of emergency, call PERS (Professional Emergency Resource Services) at 1-800-633-8253 (US) or 801-629-0667 (International).

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** This product contains no substances, which at their given concentrations, are considered to be hazardous to health.

**Potential Health Effects**

**Principal Routes of Exposure** Inhalation, skin contact, eye contact, ingestion

**Acute Toxicity**

**Inhalation** No known effect based on information supplied.

**Eyes** No known effect based on information supplied.

**Skin** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Carcinogenicity** No known effect based on information supplied

**NTP**

**IARC Monographs**

**OSHA Regulated**

**NFPA ratings (Scale 0 – 4)** No known effect based on information supplied

**Health**

**Flammability**

**Reactivity**

**Chronic Effects** No known effect based on information supplied.

**Aggravated Medical Conditions** None Known

**Environmental Hazard** See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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A Takara Bio Company  
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800.662.2566	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116

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## 4. FIRST AID MEASURES

<b>General advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
<b>Note To Physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	For personal protection see section 8.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Clean Up Measures</b>	Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice.
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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Engineering Controls

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

### Personal Protective Equipment

<b>Eye/face protection:</b>	Safety glasses with side shields.
<b>Skin and body protection:</b>	Wear suitable protective clothing. Protective shoes or boots.
<b>Respiratory protection:</b>	None required under normal usage.
<b>Hand protection:</b>	Latex gloves.

### Hygiene Measures

When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White or almost white powder.
<b>Physical State</b>	No information available.
<b>pH</b>	No information available.
<b>Solubility</b>	No information available.
<b>Odor</b>	No information available.
<b>Specific Gravity</b>	No information available.
<b>Boiling Point</b>	No information available.
<b>Melting Point</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Incompatible Products</b>	Strong oxidizing agents, acids, water.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, Carbon dioxide, Hydrochloric acid, Hydrobromic acid, Nitrogen Oxide.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

<b><u>Acute Toxicity</u></b>	
Acute Effect	No information available

### **Chronic Toxicity**

Target Organ Effects	No information available
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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

## 13. DISPOSAL CONSIDERATIONS

### **Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### **Contaminated Packaging**

Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

### **Transportation and Hazardous Materials Description**

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Package and transport in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

<b>U. S. DOT proper shipping name</b>	Not regulated as a hazardous materials
<b>IATA proper shipping name</b>	Not regulated as a hazardous materials
<b>Identification number</b>	None

## 15. REGULATORY INFORMATION

**International Inventories** For research use only

### OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

Ensure that the hazards associated with this product are transmitted to employees by means of a hazard communications program, in accordance with federal and state Occupational Safety and Health Administration (OSHA) regulations.

### CERCLA/SUPERFUND HAZARD CATEGORY

At the time of this document's preparation, none of the ingredients of this product were listed in 40 CFR 302.4. The list should be periodically checked for applicable updates.

### SARA 313 INFORMATION

At the time of this document's preparation, none of the ingredients of this product were listed in 40 CFR 372. The list should be periodically checked for applicable updates.

### TOXIC SUBSTANCES CONTROL ACT (TSCA)

Most of the compounds in this product are on the TSCA Inventory and/or are subject to a Low Volume Exemption. Some of the components in the solution are not on TSCA lists (**R&D Use Only**). In accordance with federal regulations, this product shall be used only as a research reagent. In particular, this material shall not be distributed to any person, other than for disposal. All users must utilize the worker protection measures and environmental release controls specified in this Material Safety Data Sheet and in EPA and OSHA regulations. Acknowledgment of receipt of this Material Safety Data Sheet shall be considered acknowledgment that the user will comply with these requirements.

### UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)

This product/sample contains small amounts of animal-derived components. According to USDA guideline for importation #1121, USDA import permit is not required for the importation of this material into the US.

1. This preparation is a test kit component and is ready for use.
2. The test kits and/or kit components are not intended to be used to diagnose infectious diseases of animals.

### CALIFORNIA PROPOSITION 65

At the time of this document's preparation, none of the ingredients of this product were included on the California Proposition 65 list of chemicals known to cause cancer or reproductive toxicity. The list should periodically be checked for applicable updates.

## 16. OTHER INFORMATION

### Disclaimer:

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

### Notice to Purchaser:

Clontech products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, *in vitro* diagnostic purposes, therapeutics, or in humans. Clontech products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without prior written approval of Clontech Laboratories, Inc.

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Your use of this product is also subject to compliance with the licensing requirements described on the product's web page at <http://www.clontech.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

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**End of MSDS**