

# Material Safety Data Sheet (MSDS)

## EnzyChrom™ Aspartate Transaminase Assay Kit

Revision Number: 1.0

Last updated 01/04/2011

### PRODUCT AND COMPANY IDENTIFICATION

Trade Name: EnzyChrom™ Aspartate Transaminase Assay Kit

Item Number: EASTR-100

Manufacturer:



**GENTAUR**

[www.gentaur.com](http://www.gentaur.com)

<http://antibody-antibodies.com>

### KIT COMPONENTS

Item Number	Part Name	Quantity
EASTR-100	Assay Buffer	24 mL
	Enzyme Mix	120 µL
	Cofactor	120 µL
	NADH Solution	500 µL

### HAZARDS IDENTIFICATION

Mixture of the following substances with non-hazardous additions.

Component Name	Percent
<u>Assay Buffer</u>	
Tris(hydroxymethyl)aminomethane (CAS#: 77-86-1)	<1.50%
L-Aspartate (CAS #: 56-84-8)	<4.00%
α-Ketoglutarate (CAS #: 328-50-7)	<0.25%
<u>Enzyme Mix</u>	
Malate dehydrogenase (CAS #: 9001-64-3)	<0.01%
Lactate dehydrogenase (CAS #: 9028-36-8)	<0.01%
<u>Cofactor</u>	
Tris(hydroxymethyl)aminomethane (CAS#: 77-86-1)	<1.00%
Pyridoxal-5'-phosphate (CAS #: 853645-22-4)	<0.60%
<u>NADH Solution</u>	
NADH (CAS #: 104809-32-7)	<1.00%

Avoid contact and inhalation. Standard laboratory safety procedures should be followed when handling this product. Safety procedures include wearing OSHA approved safety glasses, gloves and protective clothing.

### FIRST AID MEASURES

If eye or skin contact occurs, immediately wash affected area with soap and copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician to seek medical advice.

If swallowed, wash out mouth with water provided person is conscious and call a physician to seek medical advice.

If inhaled, move individual to fresh air and call a physician to seek medical advice.

### FIRE FIGHTING MEASURES

*Extinguishing media:* water spray, carbon dioxide, dry chemical powder or appropriate foam.

*Special firefighting procedures:* wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

*Unusual fire and explosion hazards:* emits toxic fumes under fire conditions.

### HANDLING AND STORAGE

Keep receptacles tightly sealed. Store all reagents at -20°C.

### ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

### EXPOSURE CONTROLS / PERSONAL PROTECTION

Keep away from foodstuffs and beverages. Wash hands before and after the work. Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

### STABILITY AND REACTIVITY

*Thermal Decomposition:* no decomposition if used according to specifications.

*Dangerous Products of Decomposition:* nitrogen and sulfur oxides.

*Dangerous Reactions:* none.

### TOXICOLOGICAL INFORMATION

*Inhalation:* Harmful if inhaled

*Ingestion:* Harmful if swallowed

*Skin:* May cause skin burns

*Eyes:* May cause eye irritation

*Target Organs /* Eyes, Skin

*Chronic Exposures:*

To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

### ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water course, or sewage system.

### DISPOSAL CONSIDERATIONS

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Consult local, state or national regulations for proper disposal.

### OTHER INFORMATION

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

*This material is sold for research purposes only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. BioAssay Systems shall not be held liable for any damage resulting from handling or from contact with the above product.*