

Product Name: Amplite® Universal Fluorimetric MMP Activity Assay Kit *Green Fluorescence*

Catalog Number: 13510

<i>Chemical Name</i>	<i>CAS#</i>	<i>EINECS#</i>	<i>Appearance</i>	<i>Water Solubility</i>
Component A: MMP Green™ Substrate	N/A	N/A	liquid	Medium
Component B: APMA, 4-Aminophenylmercuric Acetate	6283-24-5	N/A	Liquid	High
Component C: Assay Buffer	N/A	N/A	liquid	high

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Amplite® Universal Fluorimetric MMP Activity Assay Kit *Green Fluorescence*

Product number: 13510

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.

Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588

Telephone: (408)-733-1055

Fax: (408)-733-1304

Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300

Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Not evaluated; GHS hazards have not been determined.

2.2 Label elements

Signal word: Not available

Hazard statements: Not available

Symbols/Pictograms: Not available

Precautionary statements - prevention: Not available

Precautionary statements - response: Not available

Precautionary statements - storage: Not available

Precautionary statements - disposal: Not available

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC): Not available

2.4 Other information

Other hazards: Not available

Section 3: Composition/information on ingredients

3.1 Substances

Chemical name:	Amplite® Universal Fluorimetric MMP Activity Assay Kit *Green Fluorescence*
CAS number:	Not available
Molecular weight:	Not applicable
Formula:	Not available

Section 4: First aid measures

4.1 First-aid measures

General advice:	If symptoms occur, seek medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Skin contact:	Rinse cautiously with water for several minutes. Consult a physician if necessary.
Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Ingestion:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Consult a physician if necessary.
Self-protection of the first aider:	Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians:	Treat symptomatically.
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Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	No information available.

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical:	No information available.
Hazardous combustion products:	No information available.

5.3 Explosion data

Sensitivity to mechanical impact:	No information available.
Sensitivity to static discharge:	No information available.

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters:	Standard procedure for chemical fires.
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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:	Use appropriate personal protective equipment. Ensure adequate ventilation.
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6.2 Environmental precautions

Environmental precautions:	Avoid discharge into drains and waterways whenever possible.
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6.3 Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Take up mechanically, placing in appropriate containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Use personal protective equipment as required. No special handling advices are necessary.
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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep in a properly-labeled container. Keep the container tightly closed in a cool, dry and well-ventilated place.
Incompatible materials:	No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines:	No information available.
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8.2 Appropriate engineering controls

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
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8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:	Tight sealing safety goggles.
Skin and body protection:	Wear protective gloves and clothing.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
General hygiene considerations:	When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Keep away from food, drink, and animal feeding stuffs.

Section 9: Physical and chemical properties

Physical state:	Liquid
Solubility in water:	Medium
Appearance:	No information available.
Odor/odor threshold:	No information available.
pH:	No information available.
Melting point/freezing point:	No information available.
Boiling point:	No information available.
Flashpoint:	No information available.
Liquid density:	No information available.
Evaporation rate:	No information available.
Upper flammability limit:	No information available.
Lower flammability limit:	No information available.

Vapor pressure:	No information available.
Vapor density:	No information available.
Specific gravity:	No information available.
Water solubility:	No information available.
Solubility in other solvents:	No information available.
Partition coefficient:	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	No information available.
Oxidizing properties:	No information available.

Section 10: Stability and reactivity

Reactivity:	None known.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous reaction has not been reported.
Hazardous polymerization:	No information available.
Conditions to avoid:	No information available.
Incompatible materials:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No information available.

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	No information available.
Eye contact:	No information available.
Skin contact:	No information available.
Ingestion:	No information available.

11.2 Information on toxicological effects

Symptoms:	No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:	No information available.
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11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:	No information available.
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Section 12: Ecological information

Ecotoxicity:	No information available.
Persistence and degradability:	No information available.
Bioaccumulation:	No information available.
Mobility:	No information available.

Section 13: Disposal consideration

Disposal of wastes:	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging:	Do not reuse container.
Other information:	None

Section 14: Transport information

DOT:	Not regulated
IMDG:	Not regulated
IATA:	Not regulated

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):	Not listed
Canada (DSL/NDSL):	Not listed
Europe (EINECS/ELINCS/NLP):	Not listed
Australia (AICS):	Not listed
South Korea (KECL):	Not listed
China (IECSC):	Not listed
Japan (ENCS):	Not listed
Phillipines (PICCS):	Not listed

15.2 US Federal Regulations

SARA 313:	Not listed
SARA 311/312 components:	Not listed
CWA (Clean Water Act):	No information available.

15.3 US State Regulations

California Proposition 65:	Not listed
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
U.S. State Right-To-Know Regulations:	No information available.

Section 16: Other information

16.1 HMIS

Health hazards:	Not determined
Flammability:	Not determined
Reactivity:	Not determined
Personal protection:	Not determined

16.2 NFPA

Health hazards:	Not determined
Flammability:	Not determined
Stability:	Not determined

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. 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. 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 the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: APMA, 4-Aminophenylmercuric Acetate
Product number: 13510

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.
Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588
Telephone: (408)-733-1055
Fax: (408)-733-1304
Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300
Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Specific target organ toxicity, repeated exposure: Category 2
Hazardous to the aquatic environment, long-term hazard: Category 1
Acute toxicity, oral; acute toxicity, dermal; acute toxicity, inhalation: Category 2

2.2 Label elements

Signal word: Danger
Hazard statements: H373 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects
H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

Symbols/Pictograms:



Precautionary statements - prevention: Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid release to the environment.

Precautionary statements - response:	Get medical help if you feel unwell. Collect spillage.
Precautionary statements - storage:	Not available
Precautionary statements - disposal:	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC):	Not available
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2.4 Other information

Other hazards:	None known.
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Section 3: Composition/information on ingredients

3.1 Substances

Chemical name:	APMA, 4-Aminophenylmercuric Acetate
CAS number:	6283-24-5
Molecular weight:	Not applicable
Formula:	Not available

Section 4: First aid measures

4.1 First-aid measures

General advice:	First aiders need to protect themselves. Show this safety data sheet to the doctor in attendance.
Eye contact:	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Skin contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
Inhalation:	After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.
Self-protection of the first aider:	For personal protection see section 8.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
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4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians:	No data available
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Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media:	Water Foam Carbon dioxide (CO2) Dry powder
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Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical:

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion products:

Carbon oxides Nitrogen oxides (NOx) Mercury/mercury oxides.

5.3 Explosion data

Sensitivity to mechanical impact:

No information available.

Sensitivity to static discharge:

No information available.

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Specific extinguishing methods: No data available. Further information: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions:

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions:

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Methods for containment:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Methods for cleaning up:

Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Work under hood. Do not inhale substance/mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Storage class: 6.1A, Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials. Recommended storage temperature: Recommended storage temperature see product label. Packaging material: Suitable material: Amber Glass Bottle/Jar

Incompatible materials:

No information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines: 4-Aminophenylmercury acetate (CAS-No. 6283-24-5): TWA 0.1 mg/m³ (Mercury) Basis: ACGIH; TWA (Vapour) 0.05 mg/m³ (Mercury) Basis: NIOSH REL; C 0.1 mg/m³ (Mercury) Basis: NIOSH REL

8.2 Appropriate engineering controls

Engineering controls: No data available

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Safety glasses

Skin and body protection: protective clothing. Hand protection: Material: Nitrile rubber, Break through time: 480 min, Glove thickness: 0.11 mm, Protective index: Full contact, Manufacturer: KCL 741 Dermatril® L. Material: Nitrile rubber, Break through time: 480 min, Glove thickness: 0.11 mm, Protective index: Splash contact, Manufacturer: KCL 741 Dermatril® L. Remarks: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection: required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

General hygiene considerations: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Section 9: Physical and chemical properties

Physical state: Liquid
Solubility in water: High
Appearance: No information available.
Odor/odor threshold: No data available
pH: No data available
Melting point/freezing point: 325 - 329 °F / 163 - 165 °C Method: lit.
Boiling point: No data available
Flashpoint: No data available
Liquid density: No data available
Evaporation rate: No data available
Upper flammability limit: No data available

Lower flammability limit:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Specific gravity:	No data available
Water solubility:	No data available
Solubility in other solvents:	No information available.
Partition coefficient:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

Section 10: Stability and reactivity

Reactivity:	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability:	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions:	Violent reactions possible with: Strong oxidizing agents
Hazardous polymerization:	No information available.
Conditions to avoid:	no information available
Incompatible materials:	No data available
Hazardous decomposition products:	In the event of fire: see section 5

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	LC50 Inhalation - 4 h - 0.051 mg/l - dust/mist
Eye contact:	Serious eye damage/eye irritation: Remarks: No data available
Skin contact:	Skin corrosion/irritation: Remarks: No data available
Ingestion:	LD50 Oral - 5.1 mg/kg

11.2 Information on toxicological effects

Symptoms:	RTECS: OV5550000. Tremors. Stomach - Irregularities - Based on Human Evidence. Stomach - Irregularities - Based on Human Evidence
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:	Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.
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11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:

Acute toxicity: LD50 Oral - 5.1 mg/kg; LC50 Inhalation - 4 h - 0.051 mg/l - dust/mist; LD50 Dermal - 5 mg/kg; LD50 Intravenous - Mouse - 18 mg/kg. Respiratory or skin sensitization: No data available. Germ cell mutagenicity: No data available. Carcinogenicity - IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity: No data available. Specific target organ toxicity - single exposure: No data available. Aspiration hazard: No data available.

Section 12: Ecological information

Ecotoxicity:	4-Aminophenylmercury acetate: Toxicity to fish: Remarks: No data available. LC50 : 0.1 mg/l, Exposure time: 96 h. M-Factor (Acute aquatic toxicity): 10
Persistence and degradability:	4-Aminophenylmercury acetate: Biodegradability: Remarks: No data available
Bioaccumulation:	4-Aminophenylmercury acetate: Bioaccumulation: Remarks: No data available
Mobility:	4-Aminophenylmercury acetate: Stability in soil: Remarks: No data available

Section 13: Disposal consideration

Disposal of wastes:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
Contaminated packaging:	Do not reuse container.
Other information:	None

Section 14: Transport information

DOT:	49 CFR Road: UN/ID/NA number: UN 2025; Proper shipping name: Mercury compounds, solid, n.o.s. (4-Aminophenylmercury acetate); Class: 6.1; Packing group: II; Labels: Division 6.1 - Toxic substances; ERG Code: 151; Marine pollutant: yes; Poison Inhalation Hazard: No
IMDG:	UN number: UN 2025; Proper shipping name: MERCURY COMPOUND, SOLID, N.O.S. (4-Aminophenylmercury acetate); Class: 6.1; Packing group: II; Labels: 6.1; EmS Code: F-A, S-A; Marine pollutant: yes
IATA:	IATA-DGR: UN/ID No.: UN 2025; Proper shipping name: Mercury compound, solid, n.o.s. (4-Aminophenylmercury acetate); Class: 6.1; Packing group: II; Labels: Division 6.1 - Toxic substances; Packing instruction (cargo aircraft): 676; Packing instruction (passenger aircraft): 669

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):

Product contains substance(s) not active on TSCA inventory. TSCA list:
No substances are subject to a Significant New Use Rule. No
substances are subject to TSCA 12(b) export notification requirements.

Canada (DSL/NDSL):

Not listed

Europe (EINECS/ELINCS/NLP):

Not listed

Australia (AICS):

Not listed

South Korea (KECL):

Not listed

China (IECSC):

Not listed

Japan (ENCS):

Not listed

Phillipines (PICCS):

Not listed

15.2 US Federal Regulations

SARA 313:

The following components are subject to reporting levels established
by SARA Title III, Section 313: 4-Aminophenylmercury acetate 6283-24-
5 >= 90 - <= 100 %

SARA 311/312 components:

Acute Health Hazard, Chronic Health Hazard

CWA (Clean Water Act):

No information available.

15.3 US State Regulations

California Proposition 65:

WARNING: This product can expose you to chemicals including 4-
Aminophenylmercury acetate, which is/are known to the State of
California to cause birth defects or other reproductive harm. For more
information go to www.P65Warnings.ca.gov.

Massachusetts-RTK:

No components are subject to the Massachusetts Right to Know Act.

New Jersey-RTK:

Not listed

Pennsylvania-RTK:

4-Aminophenylmercury acetate 6283-24-5

U.S. State Right-To-Know Regulations:

CERCLA Reportable Quantity: This material does not contain any
components with a CERCLA RQ. SARA 304 Extremely Hazardous
Substances Reportable Quantity: This material does not contain any
components with a section 304 EHS RQ. SARA 302 Extremely
Hazardous Substances Threshold Planning Quantity: This material
does not contain any components with a section 302 EHS TPQ. Maine
Chemicals of High Concern: Product does not contain any listed
chemicals. Vermont Chemicals of High Concern: 4-
Aminophenylmercury acetate 6283-24-5. Washington Chemicals of
High Concern: 4-Aminophenylmercury acetate 6283-24-5.
International Regulations - Rotterdam Convention (Prior Informed
Consent): 4-Aminophenylmercury acetate.

Section 16: Other information

16.1 HMIS

Health hazards:

Not determined

Flammability:

Not determined

Reactivity:

Not determined

Personal protection:

Not determined

16.2 NFPA

Health hazards:	Not determined
Flammability:	Not determined
Stability:	Not determined
Physical and chemical properties:	Not determined

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. 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. 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 the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.