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## Safety Data Sheet (SDS)

**Product Name:** Amplite™ Colorimetric Glycerol 3-Phosphate (G3P) Assay Kit  
**Catalog Number:** 13838

<i>Chemical Name</i>	<i>CAS#</i>	<i>EINECS#</i>	<i>Appearance</i>	<i>Water Solubility</i>
Component A: Amplite™ Red Substrate (light sensitive)	N/A	N/A	Lyophilized powder	Moderate
Component B: Enzyme Mix	N/A	N/A	Lyophilized powder	High
Component C: Assay Buffer	N/A	N/A	Liquid	High
Component D: Glycerol 3-Phosphate (G3P) Standard	N/A	N/A	Lyophilized powder	High
Component E: DMSO	67-68-5	N/A	Liquid	High

## Safety Data Sheet (SDS)

### 1. Product and Company Identification

#### 1.1 Product identifiers

a. Product name:	Amplite™ Colorimetric Glycerol 3-Phosphate (G3P) Assay Kit
b. Product number:	13838
c. CAS number:	N/A

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

Identified uses: Laboratory chemicals **\*For Research Use Only\***

#### 1.3 Details of the supplier of the data sheet

a. Company:	AAT Bioquest, Inc. 520 Mercury Drive, Sunnyvale, CA 94085
b. Telephone:	408-733-1055
c. Fax:	408-733-1304
d. E-Mail:	info@aatbio.com

#### 1.4 Emergency telephone number

Emergency telephone number: 408-489-6491

### 2. Hazards Identification

#### 2.1 Classification

Not a hazardous substance or mixture

#### 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture

#### 2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS

None

#### 2.4 Potential health effects

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

a. Inhalation:	No data available (may be harmful by inhalation)
b. Ingestion:	No data available (may be harmful if swallowed)
c. Skin:	No data available (may cause skin irritation in susceptible persons)
d. Eyes:	No data available (may cause eye irritation in susceptible persons)
e. Chronic exposures:	No data available (potentially harmful)
f. Target organs:	No data available (potentially harmful)
g. Carcinogenic effects:	No data available (potentially harmful)
h. Mutagenic effect:	No data available (potentially harmful)
i. Reproductive toxicity:	No data available (potentially harmful)
j. Sensitization:	No data available (potentially harmful)

### 3. Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#	Appearance	Water Solubility
Component A: Amplite™ Red Substrate (light sensitive)	N/A	N/A	Lyophilized powder	Moderate
Component B: Enzyme Mix	N/A	N/A	Lyophilized powder	High
Component C: Assay Buffer	N/A	N/A	Liquid	High
Component D: Glycerol 3-Phosphate (G3P) Standard	N/A	N/A	Lyophilized powder	High

### 4. First Aid and Measures

#### 4.1 Skin contact

Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.

#### 4.2 Eye contact

Wash thoroughly after handling. 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.

#### 4.3 Ingestion

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

#### 4.4 Inhalation

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.

#### 4.5 Notes to physician

Treat symptomatically.

### **5. Fire Fighting Measures**

#### 5.1 Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

#### 5.2 Special firefighting procedures

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

#### 5.3 Unusual fire and explosions hazards

Emits toxic fumes under fire conditions.

### **6. Accidental Release Measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment and methods to clean up spilled substances promptly.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

#### 6.3 Methods for cleaning up

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

### **7. Handling and Storage**

#### 7.1 Personal precautions, protective equipment and emergency procedures

Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light.

### **8. Exposure Controls/Personal Protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Control parameters

a. Engineering measures:

General industrial hygiene practice.

b. Personal protective equipment:

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

#### 8.3 Environmental exposure control

Prevent products from entering drains.

### **9. Physical and Chemical Properties**

<i>Odor/odor threshold:</i>	No data available
<i>Specific gravity:</i>	No data available
<i>pH:</i>	No data available
<i>Boiling point:</i>	No data available
<i>Melting point:</i>	No data available
<i>Flash point:</i>	No data available
<i>Vapor pressure:</i>	No data available
<i>Vapor density:</i>	No data available
<i>Relative density:</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Partition coefficient (n-octanol/water):</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available
<i>Explosive properties:</i>	No data available
<i>Oxidizing properties:</i>	No data available

#### **10. Stability and Reactivity**

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended storage conditions
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	No data available
<i>Incompatible materials:</i>	No data available
<i>Hazardous decomposition products:</i>	No data available

#### **11. Toxicological Information**

<i>Acute toxicity:</i>	No data available
<i>Skin/corrosion/irritation:</i>	No data available (may cause skin irritation in susceptible persons)
<i>Serious eye damage/irritation:</i>	No data available (may cause eye irritation in susceptible persons)
<i>Respiratory or skin sensitization:</i>	No data available (may be harmful by inhalation)
<i>Germ cell mutagenicity:</i>	No data available (potentially harmful)
<i>Carcinogenicity:</i>	Not listed by NTP, IARC, or OSHA
<i>Reproductive toxicity:</i>	No data available
<i>Specific target organ toxicity:</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>RTECS:</i>	No data available

#### **12. Ecological Information**

<i>Ecotoxicity:</i>	No data available
<i>Persistence and degradability:</i>	No data available
<i>Bioaccumulative potential:</i>	No data available
<i>Mobility in soil:</i>	No data available
<i>Results of PBT and vPvB assessment:</i>	No data available

#### **13. Disposal Consideration**

Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

#### **14. Transport Information**

<i>DOT (US):</i>	Not dangerous goods
<i>IMDG:</i>	Not dangerous goods
<i>IATA:</i>	Not dangerous goods

#### **15. Regulatory Information**

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<i>US Toxic Substances Control Act (TSCA):</i>	Not listed
<i>SARA 302 components:</i>	Not listed
<i>SARA 313 components:</i>	Not listed
<i>SARA 311/312 components:</i>	Not listed
<i>EEC risk statements:</i>	Not listed
<i>Massachusetts-RTK:</i>	Not listed
<i>New Jersey-RTK:</i>	Not listed
<i>Pennsylvania-RTK:</i>	Not listed
<i>California Proposition 65:</i>	Not listed

**16. Other Information****16.1 HMIS Rating**

<i>Health hazard</i>	0
<i>Flammability</i>	0
<i>Reactivity</i>	0

**16.2 NFPA Rating**

<i>Health hazard</i>	0
<i>Flammability</i>	0
<i>Reactivity</i>	0

**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 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 (SDS)

### 1. Product and Company Identification

#### 1.1 Product identifiers

a. Product name:	DMSO
b. Product number:	N/A
c. CAS number:	67-68-5

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

Identified uses:	Laboratory chemicals <b>*For Research Use Only*</b>
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#### 1.3 Details of the supplier of the data sheet

a. Company:	AAT Bioquest, Inc. 520 Mercury Drive, Sunnyvale, CA 94085
b. Telephone:	408-733-1055
c. Fax:	408-733-1304
d. E-Mail:	info@aatbio.com

#### 1.4 Emergency telephone number

Emergency telephone number:	408-489-6491
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### 2. Hazards Identification

#### 2.1 Classification

H227 Combustible liquid, H315 Causes Skin irritation, H319 Causes serious eye irritation

#### 2.2 GHS label elements, including precautionary statements

H227 Combustible liquid, H315 Causes Skin irritation, H319 Causes serious eye irritation

#### 2.3 Hazardous not otherwise classified (HNOC) or not covered by GHS

None

#### 2.4 Potential health effects

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

a. Inhalation:	High vapor concentrations may cause headache, dizziness, and sedation
b. Ingestion:	No data available (may be harmful if swallowed)
c. Skin:	Causes irritation to the skin.
d. Eyes:	Causes irritation to the eyes.
e. Chronic exposures:	No data available (potentially harmful)
f. Target organs:	No data available (potentially harmful)
g. Carcinogenic effects:	No data available (potentially harmful)
h. Mutagenic effect:	Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, liver, mucous membranes, skin, eyes
i. Reproductive toxicity:	No data available (potentially harmful)
j. Sensitization:	No data available (potentially harmful)

### 3. Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#
Component E: DMSO	67-68-5	N/A

#### **4. First Aid and Measures**

##### *4.1 Skin contact*

Remove contaminated clothing. Rinse with plenty of water. Call a physician to seek medical advice if symptoms arise.

##### *4.2 Eye contact*

Wash thoroughly after handling. 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.

##### *4.3 Ingestion*

Never give anything by mouth to an unconscious person. Call a physician to seek medical advice if symptoms arise.

##### *4.4 Inhalation*

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.

##### *4.5 Notes to physician*

Treat symptomatically.

#### **5. Fire Fighting Measures**

##### *5.1 Extinguishing media*

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

##### *5.2 Special firefighting procedures*

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

##### *5.3 Unusual fire and explosions hazards*

Emits toxic fumes under fire conditions.

#### **6. Accidental Release Measures**

##### *6.1 Personal precautions, protective equipment and emergency procedures*

In case of mist formation use a respirator or self-contained breathing apparatus (SCBA). Use appropriate protective equipment and methods to clean up spilled substances promptly.

##### *6.2 Environmental precautions*

Prevent further leakage or spillage if safe to do so.

##### *6.3 Methods for cleaning up*

Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

#### **7. Handling and Storage**

##### *7.1 Personal precautions, protective equipment and emergency procedures*

Potentially harmful. Avoid prolonged or repeated exposure. Avoid dust formation. Avoid breathing vapors, mist or gas.

##### *7.2 Conditions for safe storage, including any incompatibilities*

Keep container tightly closed in a dry, cool and well-ventilated place. Protect material from long-term exposure to light. Keep away from ignition sources.

#### **8. Exposure Controls/Personal Protection**

##### *8.1 Control parameters*

Contains no substances with occupational exposure limit values.

##### *8.2 Control parameters*

###### *a. Engineering measures:*

General industrial hygiene practice.

###### *b. Personal protective equipment:*

Wear appropriate gloves, protective clothing and eyewear and follow safe laboratory practices.

##### *8.3 Environmental exposure control*

Prevent products from entering drains.

## **9. Physical and Chemical Properties**

<i>Appearance:</i>	Liquid
<i>Solubility in water:</i>	High
<i>Odor/odor threshold:</i>	Odorless
<i>Specific gravity:</i>	1.1 @ 20°C (68°F) (water=1)
<i>pH:</i>	8.5 (50/50 in water)
<i>Boiling point:</i>	189°C (372.2°F)
<i>Melting point:</i>	18°C (64°F)
<i>Flash point:</i>	89°C (192°F) Closed Cup, 95°C (203°F) Open Cup
<i>Vapor pressure:</i>	0.55 mbar (0.46 mmHg) @ 20°C (68°F)
<i>Vapor density:</i>	2.7
<i>Relative density:</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	Lower Explosive Limit: 3.0-3.5% by volume
<i>Partition coefficient (n-octanol/water):</i>	-2.03 (log Pow)
<i>Auto-ignition temperature:</i>	300-302°C (572-575°F)
<i>Decomposition temperature:</i>	> 190 °C (> 374 °F)
<i>Viscosity:</i>	2.0 mPas or cP (@ 25°C/77°F)
<i>Explosive properties:</i>	Product does not present an explosion hazard.
<i>Oxidizing properties:</i>	The substance or mixture is not classified as oxidizing.

## **10. Stability and Reactivity**

<i>Reactivity:</i>	Hazardous Polymerization will not occur.
<i>Chemical stability:</i>	Stable under recommended storage conditions
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	Avoid heat, flames, and sparks. Prolonged heating above 150°C (302°F) can cause rapid, exothermic decomposition.
<i>Incompatible materials:</i>	Organic and inorganic acid chlorides, strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.
<i>Hazardous decomposition products:</i>	Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide, dimethyl disulfide, and bis (methylthio) methane.

## **11. Toxicological Information**

<i>Acute toxicity:</i>	Acute oral toxicity (LD50): 7920 mg/kg [Mouse]. Acute dermal toxicity (LD50): 40000 mg/kg [Rat].
<i>Skin/corrosion/irritation:</i>	2
<i>Serious eye damage/irritation:</i>	2
<i>Respiratory or skin sensitization:</i>	No data available (may be harmful by inhalation)
<i>Germ cell mutagenicity:</i>	No data available (potentially harmful)
<i>Carcinogenicity:</i>	Not listed by NTP, IARC, or OSHA
<i>Reproductive toxicity:</i>	Affects fertility, mortality, and development of fetuses in rats.
<i>Specific target organ toxicity:</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>RTECS:</i>	PV6210000

## **12. Ecological Information**

<i>Ecotoxicity:</i>	Toxicity to fish LC50 – Pimephales promelas (Fathead minnow) – 34,000 mg/L-96h
<i>Persistence and degradability:</i>	Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301D)
<i>Bioaccumulative potential:</i>	No data available
<i>Mobility in soil:</i>	No data available
<i>Results of PBT and vPvB assessment:</i>	This product contains no PBT/vPvB chemicals.

## **13. Disposal Consideration**



Do not allow product to reach ground water, water course, or sewage system. Consult local, state or national regulations for proper disposal.

**14. Transport Information**

<i>DOT (US):</i>	Not a DOT controlled material.
<i>IMDG:</i>	Not dangerous goods
<i>IATA:</i>	Not dangerous goods

**15. Regulatory Information**

<i>US Toxic Substances Control Act (TSCA):</i>	Not listed
<i>SARA 302 components:</i>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
<i>SARA 313 components:</i>	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<i>SARA 311/312 components:</i>	Fire Hazard, Chronic Health Hazard
<i>EEC risk statements:</i>	Not listed
<i>Massachusetts-RTK:</i>	No components are subject to the Massachusetts Right to Know Act.
<i>New Jersey-RTK:</i>	Dimethyl sulfoxide
<i>Pennsylvania-RTK:</i>	Dimethyl sulfoxide
<i>California Proposition 65:</i>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. Other Information**

<i>16.1 HMIS Rating</i>	
<i>Health hazard</i>	0
<i>Flammability</i>	2
<i>Reactivity</i>	0
<i>16.2 NFPA Rating</i>	
<i>Health hazard</i>	0
<i>Flammability</i>	2
<i>Reactivity</i>	0

*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 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.**