
Product Information	Revision Date: 06-28-2018	Version: 2.0
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Product Name:

Auto-Mag[®] Blood & Tissue DNA isolation Kit

Intended Use for the Product:

Use of the substance/mixture: Research Use Only

Name, Address, and Telephone of the Responsible Party

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency telephone number

Emergency number: In case of medical emergency, call 911. Contact your local Poison Control Center.

List of Components

- Auto-Mag[®] Particle D-1
- TSL Buffer
- TDB Buffer
- MPW Buffer
- TDW Buffer
- Elution Buffer
- Proteinase K solution

Auto-Mag[®] Particle D-1	Revision Date 06/28/2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: Auto-Mag[®] Particle D-1
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911, Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Not a dangerous substance according GHS

GHS Symbol Elements

N/A

Signal word

N/A

Hazard statement(s)

No data available

Precautionary statement(s)

No data available

HMIS Classification (0-4)

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Other hazards

No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS

Composition

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
n/a	n/a	n/a	n/a

4. FIRST-AID MEASURES

General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Contains no substances with occupational exposure limit values.

Individual Protection**Hand Protection:**

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Basic Physical and Chemical Properties**

Appearance	liquid.
Odor	Odorless
Color	Dark brown
PH	5-8
Melting Point/Freezing Point	Not available (melting); not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient,	Not available
Auto-ignition Temperature	Not available

Decomposition Temperature Not available
Viscosity Not available (kinematic) Not available (dynamic)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods.

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Water CAS-No 7732-18-5

California Prop. 65 Components

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

Further Information

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

TSL Buffer	Revision Date 06.28.2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: TSL Buffer
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Not a dangerous substance according GHS

GHS Symbol Elements

n/a

Signal word

n/a

Hazard statement(s)

No data available

Precautionary statement(s)

No data available

HMIS Classification (0-4)

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Other hazards

No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS

Composition

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
n/a	n/a	n/a	n/a

4. FIRST-AID MEASURES
General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES
Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

6. ACCIDENTAL RELEASE MEASURES
Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Contains no substances with occupational exposure limit values.

Individual Protection**Hand Protection:**

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

No special protective equipment required.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROTECTION**Basic Physical and Chemical Properties**

Appearance	liquid.
Odor	Odorless
Color	Colorless
PH	6-8
Melting Point/Freezing Point	Not available (melting); not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient,	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity Not available (kinematic)	Not available (dynamic)

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10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) – Single Exposure

Acute Toxicity

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

=====

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Water CAS-No 7732-18-5

California Prop. 65 Components

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

Further Information

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

TDB Buffer	Revision Date 06.28.2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: TDB Buffer
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)

GHS Symbol Elements



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P311 Call a POISON CENTER or doctor/ physician

HMIS Classification (0-4)

Health hazard: 2
Flammability: 0

Physical hazards: 0
NFPA Rating (0-4)
Health hazard: 2
Fire: 0
Reactivity Hazard: 0
Other hazards
No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS

Composition

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Guanidine Hydrochloride	50-01-1	12-58%	n/a

Refer to Section 16 for full text of H-Statements and R-Phrases.

4. FIRST-AID MEASURES

General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Carbon oxides (CO, CO₂), Sulfur Oxides (SOX), Nitrogen oxides (NO_x).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid release to the environment.

Conditions for Safe Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Contains no substances with occupational exposure limit values.

Individual Protection**Hand Protection:**

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Basic Physical and Chemical Properties**

Appearance	liquid.
Odor	Odorless
Color	Colorless

PH	5.6-6
Melting Point/Freezing Point	Melting point/range: 117 ° C (243 ° F)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient,	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity Not available (kinematic)	Not available (dynamic)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

Heating

Incompatible Materials

Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NO_x), hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

=====
No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.
Skin Absorption: No information was located.
Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

Inhalation Toxic if inhaled. May cause respiratory irritation.
Ingestion Harmful if swallowed.
Skin Harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**DOT (US)**

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods.

15. REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Guanidine thiocyanate CAS-No. 50-01-1

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Guanidine thiocyanate CAS-No. 50-01-1

Water CAS-No 7732-18-5

California Prop. 65 Components

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**Text for H-code(s) and R-phrases(s) used in Section 3**

Acute Toxicity	Acute toxicity
Eye Irritant	Eye irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irritant	Skin irritation

Further Information

=====

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

MPW Buffer	Revision Date 06.28.2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: MPW Buffer
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)

GHS Symbol Elements



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P311 Call a POISON CENTER or doctor/ physician

HMIS Classification (0-4)Health hazard: 2
Flammability: 0
Physical hazards: 0**NFPA Rating (0-4)**Health hazard: 2
Fire: 0
Reactivity Hazard: 0**Other hazards**

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Composition**

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Guanidine Hydrochloride	50-01-1	12-58%	n/a

Refer to Section 16 for full text of H-Statements and R-Phrases.

4. FIRST-AID MEASURES**General Advice**

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible

Suitable Extinguishing MediaDry powder, CO₂, water spray, or regular foam.**Special Protective Equipment and Precautions for Fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection

Hand Protection:

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

No special protective equipment required.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

Appearance	liquid.
Odor	Odorless

Color	Colorless
PH	5-8
Melting Point/Freezing Point	Not available (melting); not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient,	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity Not available (kinematic)	Not available (dynamic)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

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Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**DOT (US)**

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Water CAS-No 7732-18-5

California Prop. 65 Components

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**Text for H-code(s) and R-phrases(s) used in Section 3**

Acute Toxicity	Acute toxicity
Eye Irritant	Eye irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irritant	Skin irritation

Further Information

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AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

TDW Buffer	Revision Date 06.28.2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: TDW Buffer
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Not a dangerous substance according GHS

GHS Symbol Elements

n/a

Signal word

n/a

Hazard statement(s)

No data available

Precautionary statement(s)

No data available

HMIS Classification (0-4)

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Other hazards

No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS

Composition

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
n/a	n/a	n/a	n/a

4. FIRST-AID MEASURES
General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES
Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Sodium oxides

6. ACCIDENTAL RELEASE MEASURES
Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection

Hand Protection:

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

No special protective equipment required.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	liquid.
Odor	Odorless
Color	Colorless
PH	5-8
Melting Point/Freezing Point	Not available (melting); not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water

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Partition Coefficient, Not available
Auto-ignition Temperature Not available
Decomposition Temperature Not available
Viscosity Not available (kinematic) Not available (dynamic)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.
LD50 (oral): No information was located.
LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) – Single Exposure

Inhalation: No information was located.
Skin Absorption: No information was located.
Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Water CAS-No 7732-18-5

California Prop. 65 Components

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

Further Information

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

Elution Buffer	Revision Date 06.28.2016	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: Elution Buffer
Product Family: DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Not a dangerous substance according GHS

GHS Symbol Elements

n/a

Signal word

n/a

Hazard statement(s)

No data available

Precautionary statement(s)

No data available

HMIS Classification (0-4)

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Other hazards

No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS

Composition

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
n/a	n/a	n/a	n/a

4. FIRST-AID MEASURES**General Advice**

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE-FIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

Conditions for Safe Storage

No special storage conditions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection

Hand Protection:

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

Appearance	liquid.
Odor	Odorless
Color	Colorless
PH	7-8
Melting Point/Freezing Point	Not available (melting); not available (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available

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Solubility Not available in water
Partition Coefficient, Not available
Auto-ignition Temperature Not available
Decomposition Temperature Not available
Viscosity Not available (kinematic) Not available (dynamic)

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

No data available

Hazardous Decomposition Products

No data available

n/a

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio-accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods.

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right to Know Components

Water CAS-No 7732-18-5

Pennsylvania Right to Know Components

Water CAS-No 7732-18-5

New Jersey Right to Know Components

Water CAS-No 7732-18-5

California Prop. 65 Components

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

Further Information

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.

Proteinase K Solution	Revision Date 06.28.2018	Version 2.0
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1. IDENTIFICATION OF PRODUCT AND COMPANY

Identification of the substance or mixture

Product Name: Proteinase K Solution
Product Family: Tissue & Cells DNA/RNA Isolation
Recommended Use: For laboratory research purposes only.

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

2. HAZAEDS IDENTIFICATION

GHS Classification

Skin Irritation 2
Skin Sensitizer 1
Eye Irritation 2
Respiratory Sensitization 1

GHS Symbol Elements



Signal word

Danger

Hazard statement(s)

H317 May cause an allergic skin reaction
H315 Causes skin irritation
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

HMIS Classification (0-4)

Health hazard: 2
 Flammability: 1
 Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 2
 Fire: 1
 Reactivity Hazard: 0

Other hazards

No data available

3. COMPOSITION/IFORMATION ON INGREDIENTS
Composition

Chemical Name	CAS No.	Concentration	Other Identifiers
Proteinase K	39450-01-6	10-50 mg/ml	N/A

4. FIRST-AID MEASURES
General Advice

Move out of dangerous area. Consult a physician.

If Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES
Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO2, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products
No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid release to the environment.

Conditions for Safe Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection

Hand Protection:

Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

Eye/Face Protection:

Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.

Skin Protection:

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat

Respiratory Protection:

In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.

Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

Appearance	liquid.
Odor	Odorless
Color	Colorless
PH	Not available
Melting Point/Freezing Point	Not available
Initial Boiling Point/Range	Not available
Evaporation Rate	Not available
Flash Point	Not available
Flammability (solid, gas)	Not available (liquid).
Upper/Lower Explosive Limit	Not available (upper); Not available (lower)
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Not available in water
Partition Coefficient,	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity Not available (kinematic)	Not available (dynamic)

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions of use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

Heating

Incompatible Materials

Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition Products

No data available

11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

No information was located.

Serious Eye Damage/Eye Irritation Eyes

No information was located.

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Respiratory or Skin Sensitization

Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous membranes.

Germ Cell Mutagenicity

No information was located.

STOT (Specific Target Organ Toxicity) – Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

Potential Health Effects

No information was located

Additional Information

No information was located.

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and Degradability

No data available

Bio accumulative Potential

No data available

Mobility in Soil

No data available

Other Adverse Effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**DOT (US)**

Not considered dangerous goods.

IMDG

Not considered dangerous goods.

IATA

Not considered dangerous goods.

15. REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right To Know Components

Proteinase K CAS-No. 39450-01-6

New Jersey Right To Know Components

Proteinase K CAS-No. 39450-01-6

California Prop. 65 Components

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**Further Information**

AMD Biotech Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that AMD Biotech Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or

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otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.