

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit **Material Safety Data Sheet**

**Product Information** Revision Date: 06-18-2021 Version: 1.0

Product Name: Auto-Mag® Viral/Pathogen DNA/RNA 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® C-5 Particle
- VDR Buffer
- DRW1 Buffer
- DRW2 Buffer
- RNA Elution Buffer
- Proteinase K
- LEM 1

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

## Identification of the substance or mixture

Product Name: Auto-Mag® C-5 Particles
Product Family: DNA/RNA purification

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.

## SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification Not a dangerous substance according to GHS

GHS Symbol Elements n/a Signal word n/a

Hazard statement(s)No data availablePrecautionary statement(s)No data availableOther hazardsNo 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

Potential Health Effects No data available

# SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

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

Full text of H-phrases: see section 16

# SETION 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

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## 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.

## SETION 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

# SETION 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 inert absorbent material and dispose of it 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.

## SETION 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**

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

## SETION 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 googles 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:**

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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 your hands thoroughly after using this product.

## SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless

Color Clear, with brown precipitate

PH 6-8

Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available Flammability (solid, gas) No data available Upper/Lower Explosive Limit No data available Vapor Pressure No data available Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available Viscosity No data available (kinematic) No data available

# SETION 10. STABLITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use

# **Chemical Stability**

Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNo data availableConditions to AvoidNo data availableIncompatible MaterialsNo data availableHazardous Decomposition ProductsNo data available

## SETION 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.

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Skin Absorption:
Ingestion:
No information was located.
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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

## SETION 12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

Bio-accumulative Potential

Mobility in Soil

Other Adverse Effects

No data available
No data available
No data available

Harmful to aquatic life.

# SETION 13. DISPOSAL CONSIDERATIONS

**Product:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

## **Contaminated Packaging:**

Disposal must be made according to official regulations.

# SETION 14. TRANSPORT INFORMATION

DOT (US)

IMDG

Not considered dangerous goods.

Not considered dangerous goods.

Not considered dangerous goods.

# SETION 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.

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## SARA 311/312 Hazards

Acute Health Hazard

Right to Know Components	Components	CAS No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5
California Prop. 65 Components		
This product does not contain any chemicals listed by the State of California's Proposition 65.		

# SETION 16. OTHER INFORMATION

## **GHS Full Text Phrases**

n/a

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 requirements. 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.

# **VDR Buffer**

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

## Identification of the substance or mixture

Product Name: VDR Buffer

Product Family: DNA/RNA purification

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.

# SECTION 2. HAZAEDS IDENTIFICATION

## **GHS Classification**

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

Eye irritation (Category 2A



Signal word Danger

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

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Other hazards No data available

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## SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Guanidine Thiocyanate	593-84-0	50-80%	n/a

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

# SETION 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.

## SETION 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 (NOx).

# SETION 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.

# SETION 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**

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

# SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### **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 googles 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 your hands thoroughly after using this product.

# SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless
Color Colorless
PH <5

Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available Flammability (solid, gas) No data available No data available Upper/Lower Explosive Limit Vapor Pressure No data available Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available No data available Auto-ignition Temperature **Decomposition Temperature** No data available No data available Viscosity No data available (kinematic)

## SETION 10. STABLITY 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** 

# **VDR Buffer**

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

# SETION 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 HazardNo 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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

## SETION 12. ECOLOGICAL INFORMATION

ToxicityNo data availablePersistence and DegradabilityNo data availableBio-accumulative PotentialNo data availableMobility in SoilNo data availableOther Adverse EffectsNo data available

Harmful to aquatic life.

# SETION 13. DISPOSAL CONSIDERATIONS

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

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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## **Contaminated Packaging:**

Disposal must be made according to official regulations.

# SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

## SETION 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

Right to Know Components	Components	CAS No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
	Guanidine thiocyanate	593-84-0
New Jersey	Water	7732-18-5
	Guanidine thiocyanate	593-84-0
California Prop. 65 Components	v chemicals listed by the State of Ca	lifornia's Dronosition CE

# SETION 16. OTHER INFORMATION

## **GHS Full Text Phrases**

Acute Tox.	Acute Toxicity
Eye Irri	Eye Irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irri	Skin Irritation

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 requirements. 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.

# **DRW1** Buffer

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

# Identification of the substance or mixture

Product Name: DRW1 Buffer

Product Family: DNA/RNA purification

Recommended Use: For laboratory research purposes only

## Manufacturer/Supplier

AMD Biotech Inc. 1860 Montreal Rd. Tucker, GA 30084

USA.

Telephone 404-290-5063 Email <u>Support@amdbiotech.com</u>

## **Emergency Telephone**

If Medical Emergency, Call 911

Contact your local Poison Control Center.

# SECTION 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 Danger

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

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Other hazards No data available

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

## SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Guanidine Thiocyanate	593-84-0	10-25%	n/a

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

# SETION 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.

## SETION 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 (NOx).

# SETION 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.

# SETION 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**

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

# SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

#### **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 googles 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 your hands thoroughly after using this product.

# SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless
Color Colorless
PH <5

Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available Flammability (solid, gas) No data available No data available Upper/Lower Explosive Limit Vapor Pressure No data available Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available No data available Auto-ignition Temperature **Decomposition Temperature** No data available No data available Viscosity No data available (kinematic)

## SETION 10. STABLITY 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** 

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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

# SETION 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 HazardNo 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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

## SETION 12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

Bio-accumulative Potential

Mobility in Soil

Other Adverse Effects

No data available
No data available
No data available

Harmful to aquatic life.

# SETION 13. DISPOSAL CONSIDERATIONS

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

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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## **Contaminated Packaging:**

Disposal must be made according to official regulations.

# SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

## SETION 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

Right to Know Components	Components	CAS No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
	Guanidine thiocyanate	593-84-0
New Jersey	Water	7732-18-5
	Guanidine thiocyanate	593-84-0
California Prop. 65 Components	•	•
This product does not contain an	y chemicals listed by the State of Ca	llifornia's Proposition 65.

# SETION 16. OTHER INFORMATION

## **GHS Full Text Phrases**

Acute Tox.	Acute Toxicity
Eye Irri	Eye Irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irri	Skin Irritation

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 requirements. 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.

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

# Identification of the substance or mixture

Product Name: DRW2 Buffer

Product Family: DNA/RNA purification

Recommended Use: For laboratory research purposes only

## Manufacturer/Supplier

AMD Biotech Inc. 1860 Montreal Rd. Tucker, GA 30084

USA.

Telephone 404-290-5063 Email <u>Support@amdbiotech.com</u>

## **Emergency Telephone**

If Medical Emergency, Call 911

Contact your local Poison Control Center.

# SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification Not a dangerous substance according to GHS

GHS Symbol Elements n/a Signal word n/a

Hazard statement(s)No data availablePrecautionary statement(s)No data availableOther hazardsNo data available

HMIS Classification (0-4)

Health hazard:0Flammability:0Physical hazards:0

NFPA Rating (0-4)

Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects No data available

# SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

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

Full text of H-phrases: see section 16

# SETION 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

# **DRW2** Buffer

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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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.

# SETION 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

# SETION 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 inert absorbent material and dispose of it 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.

# SETION 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**

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

# SETION 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 googles 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.

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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## **Hygiene Measures**

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

# SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless
Color Colorless
PH 6-8

Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available No data available Flammability (solid, gas) Upper/Lower Explosive Limit No data available Vapor Pressure No data available Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available Auto-ignition Temperature No data available No data available **Decomposition Temperature** Viscosity No data available (kinematic) No data available

# SETION 10. STABLITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use

## **Chemical Stability**

Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNo data availableConditions to AvoidNo data availableIncompatible MaterialsNo data availableHazardous Decomposition ProductsNo data available

# SETION 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.

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# **DRW2** Buffer

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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#### 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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

# SETION 12. ECOLOGICAL INFORMATION

ToxicityNo data availablePersistence and DegradabilityNo data availableBio-accumulative PotentialNo data availableMobility in SoilNo data availableOther Adverse EffectsNo data available

Harmful to aquatic life.

# SETION 13. DISPOSAL CONSIDERATIONS

**Product:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

## **Contaminated Packaging:**

Disposal must be made according to official regulations.

## SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

# SETION 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

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# **DRW2** Buffer

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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Right to Know Components	Components	CAS No.
Massachusetts	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5
California Prop. 65 Components		
This product does not contain any chemicals listed by the State of California's Proposition 65.		

# SETION 16. OTHER INFORMATION

## **GHS Full Text Phrases**

n/a

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 requirements. 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.

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

# Identification of the substance or mixture

Product Name: RNA Elution Buffer
Product Family: DNA/RNA purification

Recommended Use: For laboratory research purposes only

## Manufacturer/Supplier

AMD Biotech Inc. 1860 Montreal Rd. Tucker, GA 30084

USA.

Telephone 404-290-5063 Email <u>Support@amdbiotech.com</u>

## **Emergency Telephone**

If Medical Emergency, Call 911

Contact your local Poison Control Center.

# SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification Not a dangerous substance according to GHS

GHS Symbol Elements n/a Signal word n/a

Hazard statement(s)No data availablePrecautionary statement(s)No data availableOther hazardsNo data available

HMIS Classification (0-4)

Health hazard:0Flammability:0Physical hazards:0

NFPA Rating (0-4)

Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects No data available

# SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

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

Full text of H-phrases: see section 16

# SETION 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

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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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.

# SETION 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

# SETION 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 inert absorbent material and dispose of it 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.

# SETION 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**

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

# SETION 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 googles 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.

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According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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## **Hygiene Measures**

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

# SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless
Color Colorless
PH 6-8

Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available No data available Flammability (solid, gas) Upper/Lower Explosive Limit No data available Vapor Pressure No data available Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available Auto-ignition Temperature No data available No data available **Decomposition Temperature** Viscosity No data available (kinematic) No data available

# SETION 10. STABLITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use

## **Chemical Stability**

Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNo data availableConditions to AvoidNo data availableIncompatible MaterialsNo data availableHazardous Decomposition ProductsNo data available

# SETION 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.

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# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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## **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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

# SETION 12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

Bio-accumulative Potential

Mobility in Soil

Other Adverse Effects

No data available
No data available
No data available

Harmful to aquatic life.

# SETION 13. DISPOSAL CONSIDERATIONS

**Product:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

# **Contaminated Packaging:**

Disposal must be made according to official regulations.

## SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

## SETION 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

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# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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Right to Know Components	Components	CAS No.	
Massachusetts	Water	7732-18-5	
Pennsylvania	Water	7732-18-5	
New Jersey	Water	7732-18-5	
California Prop. 65 Components			
This product does not contain an	y chemicals listed by the State	of California's Proposition 65.	

# SETION 16. OTHER INFORMATION

## **GHS Full Text Phrases**

n/a

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.....

# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

# Identification of the substance or mixture

Product Name: Proteinase K solution
Product Family: DNA/RNA purification

Recommended Use: For laboratory research purposes only

## Manufacturer/Supplier

AMD Biotech Inc. 1860 Montreal Rd. Tucker, GA 30084

USA.

Telephone 404-290-5063 Email <u>Support@amdbiotech.com</u>

## **Emergency Telephone**

If Medical Emergency, Call 911

Contact your local Poison Control Center.

# SECTION 2. HAZAEDS IDENTIFICATION

## **GHS Classification**

Skin Irritation2Skin Sensitizer1Eye Irritation2Respiratory Sensitization1

# **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.

Other hazards	No data available

HMIS Classification (0-4)

Health hazard: 2
Flammability: 0
Physical hazards: 0
NFPA Rating (0-4)

NEFA Nating (0-4)

Health hazard: 2

# **Proteinase K**

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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Fire: 0
Reactivity Hazard: 0

**Potential Health Effects** 

Inhalation: May cause respiratory tract irritation

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

# SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Proteinase K	39450-01-6	10-40mg/ml	n/a
Glycerol	56-81-5	30-50 %	n/a

Full text of H-phrases: see section 16

# SETION 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.

## SETION 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

## SETION 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 inert absorbent material and dispose of it 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.

## SETION 7. HANDLING AND STORAGE

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# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

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#### **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**

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

## SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control Parameters**

Components	CAS-No	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air
				Contaminants -
				1910.1000

## **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 googles 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 your hands thoroughly after using this product.

# SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance	liquid.
Odor	Odorless
Color	Clear/slight yellow
PH	No data available
Melting Point/Freezing Point	No data available
Initial Boiling Point/Range	No data available
Evaporation Rate	No data available
Flash Point	No data available
Flammability (solid, gas)	No data available
Upper/Lower Explosive Limit	No data available
Vapor Pressure	No data available
Vapor Density (air = 1)	No data available
Relative Density (water = 1)	No data available
Solubility	No data available
Partition Coefficient,	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity No data available (kinematic)	No data available

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

# SETION 10. STABLITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions of use

**Chemical Stability** 

Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNo data availableConditions to AvoidNo data availableIncompatible MaterialsNo data availableHazardous Decomposition ProductsNo data available

## SETION 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 HazardNo 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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.Synergistic EffectsNo 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.

# SETION 12. ECOLOGICAL INFORMATION

# **Toxicity**

To Fish

# **Proteinase K**

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit **Material Safety Data Sheet**

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>5,000 mg/L Carassius Auratus (Goldfish)

44,000 mg/L Pimephales Promelas (Fathead Minnow)

>100,100 mg/L other fish

67,500 mg/L Oncorhynchus Mykiss (Rainbow Trout)

Persistence and Degradability No data available **Bio-accumulative Potential** No data available No data available **Mobility in Soil** Other Adverse Effects No data available

Harmful to aquatic life.

## SETION 13. DISPOSAL CONSIDERATIONS

Product: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

## **Contaminated Packaging:**

Disposal must be made according to official regulations.

## SETION 14. TRANSPORT INFORMATION

DOT (US) Not considered dangerous goods. **IMDG** Not considered dangerous goods. IATA Not considered dangerous goods.

# SETION 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

Right to Know Components	Components	CAS No.
Massachusetts	Glycerol	56-81-5
	Proteinase K	39450-01-6
Pennsylvania	Water	7732-18-5
	Glycerol	56-81-5
	Proteinase K	39450-01-6
New Jersey	Water	7732-18-5
	Glycerol	56-81-5
	Proteinase K	39450-01-6-5
California Prop. 65 Components		

This product does not contain any chemicals listed by the State of California's Proposition 65.

# SETION 16. OTHER INFORMATION

#### **GHS Full Text Phrases** n/a

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

# **Proteinase K**

# Auto-Mag® Viral/Pathogen DNA/RNA Isolation Kit Rules, and Regulations Material Safety Data Sheet

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requirements. 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.

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# SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

# Identification of the substance or mixture

Product Name: LEM 1

Product Family: DNA/RNA purification

Recommended Use: For laboratory research purposes only

## Manufacturer/Supplier

AMD Biotech Inc. 1860 Montreal Rd. Tucker, GA 30084

USA.

Telephone 404-290-5063 Email <u>Support@amdbiotech.com</u>

## **Emergency Telephone**

If Medical Emergency, Call 911

Contact your local Poison Control Center.

# SECTION 2. HAZAEDS IDENTIFICATION

## **GHS Classification**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Respiratory sensitization (Category 1), H334

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **GHS Symbol Elements**



## Signal word

Danger

## Hazard statement(s)

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

## Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P285 In case of inadequate ventilation wear respiratory protection.

P342 + P341 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards	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	

# **Potential Health Effects**

Inhalation: May be harmful if inhaled

Skin: May be harmful if absorbed through skin. Causes skin irritation.

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules, and Regulations

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

# SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS No.	Concentration	Other Identifiers
Lysozyme, from chicken egg white	12650-88-3	1-20mg/ml	n/a
Glycerol	56-81-5	30-50 %	n/a
Stabilizer	CBI*	0.001-0.1 %	n/a

Full text of H-phrases: see section 16

# SETION 4. FIRST-AID MEASURES

## **General Advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

## 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.

# SETION 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

# SETION 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 inert absorbent material and dispose of it 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.

## SETION 7. HANDLING AND STORAGE

# **Precautions for Safe Handling**

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<sup>\*</sup>CBI = Confidential Business Information. The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

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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**

Keep containers tightly closed, Recommended storage temperature-20 °C

## SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control Parameters**

Components	CAS-No	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air
				Contaminants -
				1910.1000

## **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.

## **Eve/Face Protection:**

Use a face shield and/or safety googles 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 your hands thoroughly after using this product.

## **Control of environmental exposure**

Do not let product enter drains.

## SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

## **Basic Physical and Chemical Properties**

Appearance liquid.
Odor Odorless
Color Clear

PH No data available Melting Point/Freezing Point No data available Initial Boiling Point/Range No data available **Evaporation Rate** No data available Flash Point No data available Flammability (solid, gas) No data available Upper/Lower Explosive Limit No data available No data available **Vapor Pressure** Vapor Density (air = 1) No data available Relative Density (water = 1) No data available Solubility No data available Partition Coefficient, No data available Auto-ignition Temperature No data available **Decomposition Temperature** No data available Viscosity No data available (kinematic) No data available

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## Other safety information

No data available

# SETION 10. STABLITY 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**

Stable under recommended storage conditions.

Possibility of Hazardous ReactionsNo data availableConditions to AvoidNo data available

**Incompatible Materials**Strong oxidizing agents

**Hazardous Decomposition Products** In the event of fire: see section 5

## SETION 11. TOXICOLOGICAL INFORMATION

## **Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

## **Acute Toxicity**

LD50 Oral - Rat - male and female - > 5,050 mg/kg

(US-EPA)

LC50 Inhalation - Rat - male and female - 4 h - > 2.51 mg/l

(US-EPA)

LD50 Dermal - Rabbit - male and female - > 5,050 mg/kg

(US-EPA)

No data available.

Skin Corrosion/Irritation No information was located.
Serious Eye Damage/Eye Irritation Eyes No information was located.

**Respiratory or Skin Sensitization** 

Prolonged or repeated exposure may cause allergic reactions in certain sensitive

individuals.

**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 HazardNo 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 ToxicityNo information was located.Sexual Function and Fertility.No information was located.Interactive EffectsNo information was located.

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## 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 RTECS: OL5989000

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

## SETION 12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

Bio-accumulative Potential

Mobility in Soil

Other Adverse Effects

No data available
No data available
No data available

## SETION 13. DISPOSAL CONSIDERATIONS

**Product:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

## **Contaminated Packaging:**

Disposal must be made according to official regulations.

# SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

# SETION 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

Right to Know Components	Components	CAS No.	
Massachusetts	Glycerol	56-81-5	
Pennsylvania	Water	7732-18-5	
	Glycerol	56-81-5	
New Jersey	Water	7732-18-5	
	Glycerol	56-81-5	

**LEM 1** 

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# SETION 16. OTHER INFORMATION

**GHS Full Text Phrases** 

n/a

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