

Material Safety Datasheet (MSDS)

Column-Pure Plasmid Miniprep Kit (Cat. No. G4003)

Kit Components
Buffer P1
Buffer P2
Buffer P3
Buffer PW1
Buffer PW2
Elution Buffer
RNase A



Applied Biological Materials Inc.

1-3671 Viking Way, Richmond
BC, CANADA, V6V 2J5
www.abmgood.com

Updated: 29/07/2024
Version 2.2

Material Safety Datasheet (MSDS)

Updated: 26/03/2025

Version 2.2

www.abmgood.com

Applied Biological Materials Inc.

1-3671 Viking Way,

Richmond, BC, CANADA

V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Buffer P1
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none"> • Health Hazard: 0 • Flammability: 0 • Reactivity: 0
NFPA Rating	<ul style="list-style-type: none"> • Health: 0 • Flammability: 0 • Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Generally the product does not irritate the skin. Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms persist.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	No special measures required.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">• Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.• Hand: Protective gloves.

	<ul style="list-style-type: none"> • Eye: Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	Odourless.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none"> • Stable under recommended storage conditions. • Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none"> • None under normal conditions.
Hazardous Polymerization	<ul style="list-style-type: none"> • Will not occur.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none"> • Skin Contact: May cause skin irritation. • Skin Absorption: May be harmful if absorbed through the skin. • Eye Contact: May cause eye irritation. • Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. • Ingestion: May be harmful if swallowed.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none">• This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none">• Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

Material Safety Datasheet (MSDS)

Updated: 26/03/2025

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Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Buffer P2
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Substance Name	Sodium Dodecyl Sulphate
CAS Number	151-21-3
Concentration	1-10%
Substance Name	Sodium Hydroxide
CAS Number	1310-73-2
Concentration	0.5-1.0%
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none">• Health Hazard: 3• Flammability: 0• Reactivity: 0• Corrosive: Category 1A• Harmful: H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
NFPA Rating	<ul style="list-style-type: none">• Health Hazard: 3• Flammability: 0• Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and call a physician. Remove contact lenses.
Skin Contact	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a physician.
Inhalation	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician
Ingestion	Rinse out mouth and then drink plenty of water. Drink copious amounts of water and provide fresh air. Immediately call a physician.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Specific Hazards	None known. No further relevant information available.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

Section 7 – Handling and Storage

Handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">• Hand: Protective gloves. The glove material has to be impermeable and resistant to the product/substance/preparation.• Eye: Chemical safety goggles. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location.
General Hygiene Measures	Avoid contact with the skin and eyes. Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	No data available.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none">• Stable under recommended storage conditions.• Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition	<ul style="list-style-type: none">• No hazardous decomposition products known.

Products	
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Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none"> • Skin Contact: LD50 Dermal (Rabbit): 580 mg/kg. • Eye Contact: Causes serious eye irritation. • Ingestion: LD50 Oral (Rat): 977 mg/kg.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

Sodium docecyl sulphate

•Toxicity to fish:

NOEC (Oncorhynchus mykiss (rainbow trout)): 19.5 mg/L, exposure time 96h.

LC50(Oncorhynchus mykiss (rainbow trout)): 3.6mg/L, exposure time 96h.

•Toxicity to algae:

(Pseudokirchneriella subcapitata): 2.68mg/L, exposure time 150h. Test type: growth inhibition.

Sodium hydroxide

•Toxicity to fish:

LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l, exposure time 96h.

Section 13 – Disposal Considerations

The product should not be allowed to enter drains, water courses or the soil. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none"> • This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none"> • Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions. Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

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Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Buffer P3
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Substance Name	Guanidine Hydrochloride
CAS Number	50-01-1
Concentration	1-10%
Substance Name	Acetic Acid
CAS Number	64-19-7
Concentration	1-10%
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none">• Health Hazard: 1• Flammability: 0• Reactivity: 0• Harmful: H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.
NFPA Rating	<ul style="list-style-type: none">• Health: 1• Flammability: 0• Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Immediately call physician, seek medical advice.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Specific Hazards	None known. No further relevant information available.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

Section 7 – Handling and Storage

Handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">• Hand: Protective gloves. The glove material has to be impermeable and resistant to the product/substance/preparation.• Eye: Chemical safety goggles. Tightly sealed goggles. Use equipment for eye protection tested and approved under government NIOSH standards.
General Hygiene Measures	Avoid contact with the skin and eyes. Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	Characteristic.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	>160°C
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none">• Stable under recommended storage conditions.• Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none">• None under normal conditions.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none">• Skin Contact: LD50 Dermal (Rabbit): 1,112 mg/kg• Eye Contact: Causes serious eye irritation.• Ingestion: LD50 Oral (Rat): 1,120 mg/kg
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

N/A

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none">• This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none">• Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

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Updated: 26/03/2025

Version 2.2

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Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Buffer PW1
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Substance Name	Guanidine Hydrochloride
CAS Number	50-01-1
Concentration	10-30%
Substance Name	Isopropanol
CAS Number	64-17-5
Concentration	10-20%
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none">• Health Hazard: 1• Flammability: 0• Reactivity: 0• Corrosive and Flammable: H226: Flammable liquid and vapour.• Harmful: H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.
NFPA Rating	<ul style="list-style-type: none">• Health: 1• Flammability: 0• Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Immediately call physician, seek medical advice.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Specific Hazards	None known. No further relevant information available.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

Section 7 – Handling and Storage

Handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">• Hand: Protective gloves. The glove material has to be impermeable and resistant to the product/substance/preparation.• Eye: Chemical safety goggles. Tightly sealed goggles. Use equipment for eye protection tested and approved under government NIOSH standards.
General Hygiene Measures	Avoid contact with the skin and eyes. Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	Characteristic.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	50°C
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none">• Stable under recommended storage conditions.• Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none">• None under normal conditions.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none">• Skin Contact: LD50 Dermal (Rabbit): 8000 mg/kg• Eye Contact: Causes serious eye irritation• Ingestion: LD50 Oral (Rat): 593 mg/kg
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

- Toxicity to fish: LC50 (*Poecilia reticulata* (guppy)): 89.1 mg/l, exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates: EC50 (*Daphnia*): 42.4 mg/l, exposure time: 48 h
- Toxicity to fish (Chronic toxicity) : NOEC (*Poecilia reticulata* (guppy)): 25 mg/l, exposure time: 96 d

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none">• This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none">• Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

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Version 2.2

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Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Buffer PW2
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none"> • Health Hazard: 0 • Flammability: 0 • Reactivity: 0
NFPA Rating	<ul style="list-style-type: none"> • Health: 0 • Flammability: 0 • Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Generally the product does not irritate the skin. Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms persist.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	No special measures required.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.Hand: Protective gloves.

	<ul style="list-style-type: none"> • Eye: Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	Characteristic
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	Soluble.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none"> • Stable under recommended storage conditions. • Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none"> • None under normal conditions.
Hazardous Polymerization	<ul style="list-style-type: none"> • Will not occur.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none"> • Skin Contact: May cause skin irritation. • Skin Absorption: May be harmful if absorbed through the skin. • Eye Contact: May cause eye irritation. • Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. • Ingestion: May be harmful if swallowed.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none">• This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none">• Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

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1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 Elution Buffer
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none"> • Health Hazard: 0 • Flammability: 0 • Reactivity: 0
NFPA Rating	<ul style="list-style-type: none"> • Health: 0 • Flammability: 0 • Reactivity: 0

Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Generally the product does not irritate the skin. Wash off with soap and plenty of water.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms persist.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	No special measures required.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Keep container tightly closed in a dry and well-ventilated area. Store at room temperature.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none">Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.Hand: Protective gloves.

	<ul style="list-style-type: none"> • Eye: Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	Odourless.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none"> • Stable under recommended storage conditions. • Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none"> • None under normal conditions.
Hazardous Polymerization	<ul style="list-style-type: none"> • Will not occur.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none"> • Skin Contact: May cause skin irritation. • Skin Absorption: May be harmful if absorbed through the skin. • Eye Contact: May cause eye irritation. • Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. • Ingestion: May be harmful if swallowed.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none">• This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none">• Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Applied Biological Materials Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Datasheet.

Material Safety Datasheet (MSDS)

Updated: 26/03/2025

Version 2.2

www.abmgood.com

Applied Biological Materials Inc.

1-3671 Viking Way,
Richmond, BC, CANADA
V6V 2J5

Section 1 – Product and Company Information

Product Name	Column-Pure Plasmid Miniprep Kit
Catalog # From Manufacturer	G4003 RNase A
Original Manufacturer	Applied Biological Materials, Inc
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Technical Phone	604-247-2416

Company	Applied Biological Materials Inc.
Address	#1-3671 Viking Way Richmond BC V6V 2J5 CA
Fax	604-247-2414
Emergency Phone	866-757-2414

Section 2 – Composition/Information on Ingredient

Substance Name	RNase A
CAS	9001-99-4
Concentration	100%
Other Components	Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 3 – Hazards Identification

HMIS Classification	<ul style="list-style-type: none"> • Health Hazard: 0 • Flammability: 0 • Reactivity: 0
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NFPA Rating	<ul style="list-style-type: none"> • Health: 0 • Flammability: 0 • Reactivity: 0
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Section 4 – First Aid Measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific Hazards	No special measures required.

Section 6 – Accidental Release Measures

Personal Precautions	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	Suitable: Keep tightly closed. Store at -20°C.

Section 8 – Exposure Controls/ PPE

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment	<ul style="list-style-type: none"> • Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or

	<p>CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.</p> <ul style="list-style-type: none"> • Hand: Protective gloves. • Eye: Chemical safety goggles.
General Hygiene Measures	Wash thoroughly after handling.

Section 9 – Physical and Chemical Properties

Odour	No data available.
Melting Point	No data available.
Boiling Temperature (°C)	No data available.
Density	No data available.
Vapour Pressure	No data available.
Solubility in Water	No data available.
Flash Point	No data available.
Explosion Limits	No data available.
Ignition Temperature	No data available.

Section 10 – Stability and Reactivity

Stability	<ul style="list-style-type: none"> • Stability: Stable. • Materials to Avoid: No dangerous reaction known under normal conditions.
Hazardous Decomposition Products	<ul style="list-style-type: none"> • None under normal conditions.
Hazardous Polymerization	<ul style="list-style-type: none"> • Will not occur.

Section 11 – Toxicological Information

Route of Exposure	<ul style="list-style-type: none"> • Skin Contact: May cause skin irritation. • Skin Absorption: May be harmful if absorbed through the skin. • Eye Contact: May cause eye irritation. • Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. • Ingestion: May be harmful if swallowed.
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Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
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Section 12 – Ecological Information

No data available.

Section 13 – Disposal Considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 – Transportation Information

DOT	<ul style="list-style-type: none"> • Proper Shipping Name: None • Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
IATA	<ul style="list-style-type: none"> • Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 – Regulatory Information

- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: No
- NDSL: No

Section 16 – Other Information

The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

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