

Material Safety Data Sheet

E-Z 96[®] Blood DNA Kit



Omega Bio-Tek, Inc.

1850-E Beaver Ridge Circle, Norcross, GA 30071, USA.

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Material Safety Data Sheet

Trade Name: BL Buffer
Date of Issue: 4/14/1997

1. Product and manufacturer information

Product Information:

Trade Name: BL Buffer
Manufacturer: Omega Bio-Tek, Inc.
1850-E Beaver Ridge Circle, Norcross, GA 30071
Tel: (770) 931.8400. Fax: (770) 931.0230.

2. Composition:

Chemical Characteristics: Aqueous solution of Guanidine Hydrochloride
Hazardous Components: 50-01-1 Guanidine Hydrochloride

3. **Hazardous Identification:** Toxic, harmful if inhaled, swallowed or in contact with skin.

4. First Aid: remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids with clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

5. Fire-Fighting Measures

Extinguishing media: Carbon dioxide, dry chemical power or appropriate foam.
Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Use non-sparking tools. Finally ventilate area and wash spills when pick-up is complete.

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7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle.
Mechanical exhaust required. Keep tightly closed. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not breathe vapor. Severe eye irritant

9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	amber	
Odor:	odorless	
pH:	(25°C)	8.0
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		>70°C
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.150 g/cm ³
Water Solubility:	(25°C)	Soluble

10. Stability and Reactivity:

Substances to avoid:	Strong acids and oxidants
Hazardous combustion or Decomposition products:	Carbon monoxide, carbon dioxide, nitrogen oxides and hydrogen cyanide.

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Trade Name: BL Buffer
Date of Issue: 4/14/1997

11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	
Inhalation:	May be harmful by inhalation. Material is disruptive to mucous membranes and upper respiratory tract.
Eye Contact:	Causes severe irritation.
Skin Contact:	Causes skin irritation. Harmful by skin absorption.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

Additional Information: handle with normal caution accorded to chemicals. Other harmful properties cannot be ruled out.

12. Ecological Data:

This product presents no specific danger to the environment.

13. Disposal:

Contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste. Contaminated packaging should be led in the same manner as the substance itself. Unless specified directly, non-contaminated packaging may be treated as house hold waste. Dispose in accordance with all applicable federal, state and local regulations

14. Transport Data:

N/A

15. Regulatory Data:

Labeling: Xn, harmful, flammable, R 20/22-36/38.

16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

Material Safety Data Sheet

Trade Name: DNA Wash Buffer Concentrate

Date of Issue: 4/12/1997

1. Product and manufacturer information

Product Information:

Trade Name: DNA Wash Buffer Concentrate

Manufacturer: Omega Bio-Tek, Inc.

1850-E Beaver Ridge Circle, Norcross, GA 30071

Tel: (770) 931.8400. Fax: (770) 931.0230.

2. Composition:

Chemical Characteristics: Aqueous solution of Tris (hydroxymethyl) amino methane/Hydrochloric acid and sodium chloride.

Hazardous Components: According to OSHR 29 CFR & 1910.1200, any mixture that contains less than 1% by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider PNP to be hazardous. However gloves, lab coats and protective eyewear are recommended when using any chemical reagents.

3. Hazardous Identification:

May be harmful if swallowed. May be irritating to eyes and skin.

4. First Aid: remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids with clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

5. Fire-Fighting Measures

Extinguishing media: Use appropriate, non-combustible extinguishing media.

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

Material Safety Data Sheet

Trade Name: DNA Wash Buffer Concentrate

Date of Issue: 4/12/1997

6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Mechanical exhaust required. Keep tightly closed. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not breathe vapor. Severe eye irritant

9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	odorless	
pH:	(25°C)	7.5
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		N/A
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.010 g/cm ³
Water Solubility:	(25°C)	Soluble

10. Stability and Reactivity:

Substances to avoid: N/A

Hazardous combustion or Decomposition products: Nature of decomposition products not known.

Material Safety Data Sheet

Trade Name: DNA Wash Buffer Concentrate

Date of Issue: 4/12/1997

11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	
Inhalation:	May be harmful by inhalation.
Eye Contact:	May cause irritation.
Skin Contact:	May cause irritation.
Ingestion:	May be harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

12. Ecological Data:

This product presents no specific danger to the environment.

13. Disposal:

For small quantizes flush down sink with water. Make sure to observe all federal, state and local laws and requirements.

14. Transport Data:

N/A

15. Regulatory Data:

N/A

16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

Material Safety Data Sheet

Trade Name: Elution Buffer

Date of Issue: 8/20/2004

1. Product and manufacturer information

Product Information:

Trade Name: Elution Buffer

Manufacturer: Omega Bio-Tek, Inc., 1850-E Beaver Ridge Circle, Norcross, GA
30071 Tel: (770) 931.8400. Fax: (770) 931.0230.

Toll Free Tel: 1(800) 832.8896

2. Composition:

Chemical Characteristics: Aqueous solution of Tris (hydroxymethyl) amino methane/Hydrochloric acid.

Hazardous Components: According to OSHR 29 CFR & 1910.1200, any mixture that contains less than 1% by weight or volume of a non-carcinogenic hazardous component is not considered hazardous, unless there is evidence to the contrary. We do not consider Solution I to be hazardous. However gloves, lab coats and protective eyewear are recommended when using any chemical reagents.

3. Hazardous Identification:

Not Applicable

4. First Aid:

Remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes adequate flushing is achieved by separating eyelids, clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not Breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

5. Fire-Fighting Measures

Extinguishing media: Use appropriate, non-combustible extinguishing media.

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

Material Safety Data Sheet

Trade Name: Elution Buffer

Date of Issue: 8/20/2004

6. Accidental Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Finally ventilate area and wash spills when pick-up is complete.

7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	odorless	
pH:	(25°C)	7.5
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		N/A
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	1.07 g/cm ³
Water Solubility:	(25°C)	Soluble

10. Stability and Reactivity:

Substances to avoid: N/A

Hazardous combustion or Decomposition products: Nature of decomposition products not known.

Material Safety Data Sheet

Trade Name: Elution Buffer

Date of Issue: 8/20/2004

11. Toxicological Data:

Toxicity Data	N/A
Acute Effects of:	
Inhalation:	May be harmful by inhalation.
Eye Contact:	May cause irritation.
Skin Contact:	May cause irritation.
Ingestion:	May be harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

12. Ecological Data:

This product presents no specific danger to the environment.

13. Disposal:

For small quantities flush down sink with water. Make sure to observe all Federal, State and Local laws and requirements.

14. Transport Data:

N/A

15. Regulatory Data:

N/A

16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

Material Safety Data Sheet

Trade Name: HB Buffer
Date of Issue: 7/18/2008

1. Product and manufacturer information

Product Information:

Trade Name: HB Buffer
Manufacturer: Omega Bio-Tek, Inc.
1850-E Beaver Ridge Circle, Norcross, GA 30071
Tel: (770) 931.8400. Fax: (770) 931.0230.

2. Composition:

Chemical Characteristics: Aqueous mix of substances listed below with non-hazardous additions.
Hazardous Components: 50-01-1 Guanidinium Chloride (<50%)
67-63-0 Propan-2-ol (<50%)

3. Hazardous Identification:

Hazard description: Harmful
NFPA Ratings: (Scale: 0-4) Health = 3; Fire = 3; Reactivity = 0
WHMIS Ratings: (Scale: 0-3) Health = 3; Fire = 3; Reactivity = 0

4. First Aid:

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes.
Adequate flushing is achieved by separating eyelids with clean fingers. Call Physician.
In case of skin contact: Immediately wash skin with soap and copious amounts of water.
If inhaled: Remove to an area with fresh air, consult doctor in case of complaints
If swallowed: Call a physician immediately.

5. Fire-Fighting Measures

Extinguishing media: CO₂, extinguishing power or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

6. Accidental Release Measures:

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Material Safety Data Sheet

Trade Name: HB Buffer
Date of Issue: 7/18/2008

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal.
Finally ventilate area and wash spills when pick-up is complete.

7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing.

9. Physical and Chemical Properties:

Physical State:	liquid	
Color:	colorless	
Odor:	characteristic	
pH:	(25°C)	7.0
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		100°C
Ignition Temp:		425°C
Flashpoint:		21-55°C
Explosion Level:	Lower:	2%
	Upper:	12%
Vapor Pressure:	(25°C)	43hPa
Specific Gravity:	(25°C)	1.05 g/cm ³
Water Solubility:	(25°C)	Soluble

10. Stability and Reactivity:

Substances to avoid:	N/A
Dangerous Reaction:	Strong exothermic reaction with acids, reacts with alcohol, amines, aqueous acids and alkalis
Hazardous combustion or Decomposition products:	Danger of toxic pyrolysis products.

Material Safety Data Sheet

Trade Name: HB Buffer

Date of Issue: 7/18/2008

11. Toxicological Data:

Toxicity Data

Acute Effects of:	N/A
Inhalation:	Harmful by inhalation.
Eye Contact:	May cause irritation.
Skin Contact:	May cause irritation.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	N/A

12. Ecological Data:

Water hazardous I: Slight hazardous to water, do not allow undiluted product or large quantity of it to reach ground water course or sewage system..

13. Disposal:

Must not be disposed of together with household garbage. DO NOT allow product to reach sewage system. Make sure to observe all federal, state and local laws and requirements.

14. Transport Data:

N/A

15. Regulatory Data:

N/A

16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.

Material Safety Data Sheet

Trade Name: OB Protease

Date of Issue: 4/12/1997

1. Product and manufacturer information

Product Information:

Trade Name: OB Protease

Manufacturer: Omega Bio-Tek, Inc.

1850-E Beaver Ridge Circle, Norcross, GA 30071

Tel: (770) 931.8400. Fax: (770) 931.0230.

2. Composition:

Chemical Characteristics: Enzyme Protein

3. Hazardous Identification:

Hazard Description: Xn, harmful, May cause sensitization by inhalation and skin contact.

4. First Aid: remove contaminated clothing and call physician.

In case of eye contact: Immediately flush eyes with large amounts of water for at least 20 minutes. Adequate flushing is achieved by separating eyelids with clean fingers.

In case of skin contact: Immediately wash skin with soap and copious amounts of water then consult a doctor.

If inhaled: Remove to an area with fresh air. Give artificial respiration if not breathing and call emergency services. Oxygen may be required if respiration is difficult.

If swallowed: Wash out mouth with water only if conscious.

5. Fire-Fighting Measures

Extinguishing media: Use appropriate, non-combustible extinguishing media.

Special Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin. Use water spray to cool fire-exposed containers.

6. Accidental Release Measures:

Precautionary Measures: Shut off all sources of ignition and evacuate area. Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Clean-up Procedure: Absorb on vermiculite or sand. Place in closed containers for disposal. Use non-sparking tools. Finally ventilate area and wash spills when pick-up is done.

Material Safety Data Sheet

Trade Name: OB Protease

Date of Issue: 4/12/1997

7. Handling and Storage:

Storage: Store tightly closed at 22-25°C.

8. Exposure Controls:

Rubber gloves, protective eyewear, NIOSH/MSH A-approved respirator, Safety shower and eye wash bottle. Wash hands thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not breathe vapor, Sever eye irritant. Keep well away from heat, spark and open flame. Store in cool dry place.

9. Physical and Chemical Properties:

Physical State:	powder	
Color:	white	
Odor:	none	
pH:	(25°C)	4.1-7.5
Viscosity:	(25°C)	N/A
Melting Point:		N/A
Boiling Point:		N/A
Ignition Temp:		N/A
Flashpoint:		>60°C
Explosion Level:	Lower:	N/A
	Upper:	N/A
Vapor Pressure:	(25°C)	N/A
Specific Gravity:	(25°C)	N/A
Water Solubility:	(25°C)	Soluble

10. Stability and Reactivity:

Substances to avoid:	None.
Hazardous combustion or	None.
Decomposition products:	

11. Toxicological Data:

Toxicity Data	Oral rat LD50 >2g/kg – classifies product as “non-toxic”
Acute Effects of:	N/A

Material Safety Data Sheet

Trade Name: OB Protease

Date of Issue: 4/12/1997

Inhalation:	May be harmful by inhalation. Enzyme powders are dusty substances. Inhalation of the enzyme dust, resulting from handling may induce sensitization and cause allergic reactions in mucous membranes and upper respiratory.
Eye Contact:	Causes severe irritation.
Skin Contact:	Causes skin irritation.
Ingestion:	Harmful if swallowed.
Prolonged exposure:	N/A
Chronic Effects:	N/A
RTECS Numbers:	XL1225000
Additional Information:	Handle with normal caution accorded to chemicals. Other harmful Properties cannot be rules out.

12. Ecological Data:

Data is not available however the substance is bio-degradable.

13. Disposal:

No special method required. Observe all federal, state and local laws.

14. Transport Data:

N/A

15. Regulatory Data:

Labeling: Xn, harmful, flammable, R 36/37/38-42/43

16. Other Data:

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. Omega Bio-Tek shall not be held liable for consequences resulting from handling or from contact with the above product.