

SAFETY DATA SHEET (SDS)



Product Name: MiraCLEAN® Endotoxin Removal Kit SDS

Product Number: MIR 5900, MIR 5910

This kit contains the following components. The required Safety Data Sheets for identified hazardous components are appended.

- EndoGO™ Extraction Reagent
- MiraCLEAN® Buffer

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SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier:

1.1.1.Product Name: MiraCLEAN® Buffer

1.1.2.Product Code: Part of MIR 5900 and 5910

1.1.3.CAS No.: Not applicable.

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1.Identified Uses: For research use only.

1.2.2.Uses Advised Against: Not known.

1.3. Details of the Supplier of the SDS:

1.3.1.Company: Mirus Bio LLC

1.3.2.Address: 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3.Telephone No.: 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

1.3.4.Fax: +1.608.441.2849

1.3.5.Email: info@mirusbio.com

1.4. Emergency Telephone No.:

1.4.1.US and Canada: +1.800.633.8253

1.4.2.International: +1.801.629.0667

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

This substance or mixture is not considered hazardous.

2.2. Label Elements:

2.2.1.Product Name: MiraCLEAN® Buffer

2.2.2.Hazard Pictogram(s): Not applicable.

2.2.3.Signal Word(s): Not applicable.

2.2.4.Hazard Statement(s): Not applicable.

2.2.5.Precautionary Statement(s):
Not applicable.

2.3. Other Hazards: Not applicable.

2.4. Additional Information: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

This mixture contains no ingredients at their given concentration considered to be hazardous to health.

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures:

4.1.1. Inhalation: Treat symptomatically.

4.1.2. Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water.

4.1.3. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a poison center and/or doctor.

4.1.4. Ingestion: Rinse mouth with water. Treat symptomatically.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Call a poison center and/or doctor. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing Media:

5.1.1. Suitable Extinguishing Media:

Use extinguishing media that is appropriate to local circumstances and environment.

5.1.2. Unsuitable Extinguishing Media:

No information available.

5.2. Specific Hazards Arising from the Mixture:

None known.

5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental Precautions:

This material and its container must be disposed of in a safe way.

6.3. Methods and Materials for Containment and Cleaning Up:

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Handle in accordance with good industrial hygiene and safety practices. Wear protective gloves and eye/face protection.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store tightly closed in a well-ventilated place. Keep cool.

7.2.1. Storage Temperature: 4°C.

7.2.2. Storage Life: Stable under normal conditions.

7.3. Specific End Use(s): For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

8.1.1.Occupational Exposure Limits: Not applicable.

8.2. Exposure Controls:

8.2.1.Appropriate Engineering Controls:

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2.Personal Protective Equipment:

8.2.2.1. Eye Protection: Tightly fitting safety glasses with side shields.

8.2.2.2. Skin Protection: Protective clothing and gloves.

8.2.2.3. Respiratory Protection: Normally no personal respiratory protection is necessary.

8.2.2.4. Thermal Hazards: None known.

8.3. Environmental Exposure Controls:

Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

9.1.1.Appearance Liquid
Color: colorless.

9.1.2.Odor: No data available.

9.1.3.Odor Threshold: No data available.

9.1.4.pH: 7.0 at 25°C (77°F)

9.1.5.Melting Point/freezing Point: No data available.

9.1.6.Initial Boiling Point and Boiling Range: No data available.

9.1.7.Flash Point: No data available.

9.1.8.Evaporation Rate: No data available.

9.1.9.Flammability (Solid, Gas): No data available.

9.1.10. Upper/lower Flammability or Explosive Limits:

Upper explosion limit: No data available.

Lower explosion limit: No data available.

9.1.11. Vapor Pressure: No data available.

9.1.12. Vapor Density: No data available.

9.1.13.Density: No data available.

9.1.14.Relative Density: No data available.

9.1.15.Solubility(ies): Water soluble.

9.1.16.Partition Coefficient: No data available.

9.1.17.Auto-ignition Temperature: No data available.

9.1.18.Decomposition Temperature: No data available.

9.1.19.Viscosity: No data available.

9.1.20.Explosive Properties: No data available.

9.1.21.Oxidizing Properties: No data available.

9.2. Other Information: None.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: None anticipated.

10.2. Chemical Stability: Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions: No hazardous reactions known if used for its intended purpose.

10.4. Conditions to Avoid: None known.

10.5. Incompatible Materials: Strong oxidizing agents.

10.6. Hazardous Decomposition Products: No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

- 11.1.1. **Acute Toxicity – Ingestion:** Not classified.
- 11.1.2. **Acute Toxicity – Skin Contact:** Not classified.
- 11.1.3. **Acute Toxicity – Inhalation:** Not classified.
- 11.1.4. **Skin Corrosion/Irritation:** Not classified.
- 11.1.5. **Serious Eye Damage Irritation:** Not classified.
- 11.1.6. **Skin Sensitization Data:** Not classified.
- 11.1.7. **Respiratory Sensitization Data:** Not classified.
- 11.1.8. **Germ Cell Mutagenicity:** Not classified.
- 11.1.9. **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.

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.

- 11.1.10. **Reproductive Toxicity:** Not classified.
- 11.1.11. **Lactation:** Not classified.
- 11.1.12. **Specific Target Organ Toxicity - Single Exposure:** Not classified.
- 11.1.13. **Specific Target Organ Toxicity - Repeated Exposure:** Not classified.
- 11.1.14. **Aspiration Hazard:** Not classified.

11.2. **Additional Information:** None.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1. **Ecotoxicity (Aquatic and Terrestrial, Where Available):** No data available.
- 12.2. **Persistence and Degradation:** No data available.
- 12.3. **Bioaccumulative potential:** No data available.
- 12.4. **Mobility in Soil:** No data available.
- 12.5. **Other Adverse Effects:** No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1. **Waste Treatment Methods:** Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.
- 13.2. To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

SECTION 14. TRANSPORT INFORMATION

- 14.1. **UN Number:** Not regulated.
- 14.2. **UN Proper Shipping Name:** Not regulated.
- 14.3. **Transport Hazard Class(es):** Not regulated.
- 14.4. **Packing Group, If Applicable:** Not regulated.

14.5. Environmental Hazards: Not classified as a marine pollutant.

14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)): None.

14.7. Other Special Precautions Related to Transport: None.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:

SARA 302/313 Components

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

None.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

WHMIS Hazard Class

Non-controlled. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

16.1. Revision Date: 17 Apr 2024

16.2. Reason for Revision: Corrected a typo in section 9.1.4 (77°F was incorrectly listed as 77°C).

16.3. Additional Information: None.

Disclaimer: Mirus Bio LLC believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Mirus Bio LLC does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling.

SECTION 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier:

1.1.1. **Product Name:** EndoGO Extraction Reagent

1.1.2. **Product Code:** Part of MIR 5900 and 5910

1.1.3. **CAS No.:** Not applicable.

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

1.2.1. **Identified Uses:** For research use only.

1.2.2. **Uses Advised Against:** Not known.

1.3. Details of the Supplier of the SDS:

1.3.1. **Company:** Mirus Bio LLC

1.3.2. **Address:** 5602 Research Park Blvd, Suite 210, Madison, WI 53719, USA

1.3.3. **Telephone No.:** 888.530.0801 (Toll Free within the U.S.) or +1.608.441.2852

1.3.4. **Fax:** +1.608.441.2849

1.3.5. **Email:** info@mirusbio.com

1.4. Emergency Telephone No.:

1.4.1. **US and Canada:** +1.800.633.8253

1.4.2. **International:** +1.801.629.0667

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture:

US CFR 1910.1200

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410

2.2. Label Elements:

2.2.1. Product Name:

EndoGO Extraction Reagent

2.2.2. Hazard Pictogram(s):



2.2.3. Signal Word(s):

Danger

2.2.4. Hazard Statement(s):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H410: Very toxic to aquatic life with long lasting effects.

2.2.5. Precautionary Statement(s):

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/ eye protection/ face protection.

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P332+P313: If skin irritation occurs: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

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

2.3. Other Hazards: Not applicable.

2.4. Additional Information: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Triton™ X-114	9036-19-5	>99%	Harmful if swallowed H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 1 H410	GHS 05 GHS 07 GHS 09

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures:

4.1.1. Inhalation: Treat symptomatically.

4.1.2. Skin Contact: Take off all contaminated clothing immediately. Rinse skin with water.

4.1.3. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a poison center and/or doctor.

4.1.4. Ingestion: Rinse mouth with water. Treat symptomatically.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

Toxic if swallowed. May cause skin irritation and serious eye damage.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

Call a poison center and/or doctor. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing Media:

5.1.1.Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.1.2.Unsuitable Extinguishing Media:

No information available.

5.2. Specific Hazards Arising from the Mixture:

Carbon oxides.

5.3. Advice for Firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental Precautions:

Prevent leakage or spillage. Do not let product enter drains. Discharge into the environment must be avoided. This material and its container must be disposed of in a safe way.

6.3. Methods and Materials for Containment and Cleaning Up:

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container and close for disposal as a hazardous waste.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wear protective gloves and eye/face protection.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store tightly closed in a dry, well-ventilated place. Keep containers upright to prevent leakage.

7.2.1.Storage Temperature: 4°C.

7.2.2.Storage Life: Stable under normal conditions.

7.3. Specific End Use(s): For research use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

8.1.1.Occupational Exposure Limits:

Triton™ X-114 (9036-19-5)		
USA Workplace Environmental		
Exposure Levels (WEEL)	OSHA PEL (TWA) (mg/m³)	10 mg/m³

8.2. Exposure Controls:

8.2.1.Appropriate Engineering Controls:

Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal Protective Equipment:

- 8.2.2.1. Eye Protection:** Tightly fitting safety glasses with side shields.
- 8.2.2.2. Skin Protection:** Protective clothing and gloves.
- 8.2.2.3. Respiratory Protection:** Normally no personal respiratory protection is necessary.
- 8.2.2.4. Thermal Hazards:** None known.

8.3. Environmental Exposure Controls:

Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties:

9.1.1. Appearance Liquid
 Color: pink.

9.1.2. Odor: No data available.

9.1.3. Odor Threshold: No data available.

9.1.4. pH: No data available.

9.1.5. Melting Point/freezing Point: No data available.

9.1.6. Initial Boiling Point and Boiling Range: No data available.

9.1.7. Flash Point: No data available.

9.1.8. Evaporation Rate: No data available.

9.1.9. Flammability (Solid, Gas): No data available.

9.1.10. Upper/lower Flammability or Explosive Limits:

Upper explosion limit: No data available.

Lower explosion limit: No data available.

9.1.11. Vapor Pressure: No data available.

9.1.12. Vapor Density: No data available.

9.1.13. Density: No data available.

9.1.14. Relative Density: No data available.

9.1.15. Solubility(ies): Water soluble.

9.1.16. Partition Coefficient: No data available.

9.1.17. Auto-ignition Temperature: No data available.

9.1.18. Decomposition Temperature: No data available.

9.1.19. Viscosity: No data available.

9.1.20. Explosive Properties: No data available.

9.1.21. Oxidizing Properties: No data available.

9.2. Other Information: None.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: None anticipated.

10.2. Chemical Stability: Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions: No hazardous reactions known if used for its intended purpose.

10.4. Conditions to Avoid: None known.

10.5. Incompatible Materials: Strong oxidizing agents and strong acids.

10.6. Hazardous Decomposition Products: Carbon oxides may be formed under fire conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects:

11.1.1. Acute Toxicity – Ingestion: Triton™ X-114, LD50, 4,190 mg/kg (rat)

11.1.2. Acute Toxicity – Skin Contact: Triton™ X-114, LD50, >3,000 mg/kg (rabbit)

11.1.3. Acute Toxicity – Inhalation: Not classified.

11.1.4. Skin Corrosion/Irritation: Not classified.

11.1.5. Serious Eye Damage Irritation: Calculation method (Rabbit, Draize Test): Risk of serious eye damage.

11.1.6. Skin Sensitization Data: Calculation method (Human volunteers, Patch Test): No sensitization.

11.1.7. Respiratory Sensitization Data: Not classified.

11.1.8. Germ Cell Mutagenicity: Not classified.

11.1.9. 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.

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.

11.1.10. Reproductive Toxicity: Ingestion of excessive amounts of Triton™ X-114 by pregnant animals resulted in maternal and foetal toxicity. Did not show teratogenic effects in animal experiments.

11.1.11. Lactation: Not classified.

11.1.12. Specific Target Organ Toxicity - Single Exposure: Not classified.

11.1.13. Specific Target Organ Toxicity - Repeated Exposure: Not classified.

11.1.14. Aspiration Hazard: Not classified.

11.2. Additional Information: Ingestion of a large amount may be toxic, resulting in nausea and diarrhea.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity (Aquatic and Terrestrial, Where Available): No data available, but is very toxic if released to the environment.

12.2. Persistence and Degradation: Not readily biodegradable.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in Soil: No data available.

12.5. Other Adverse Effects: Very toxic to aquatic life with long lasting effects if released to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods: Remove waste in accordance with local and/or national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. To minimize exposure, refer to Section 8 (Exposure Controls/Personal Protection) of the SDS.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number: 3082

14.2. UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octylphenol polyethoxyethanol)

14.3. Transport Hazard Class(es): Class 9

14.4. Packing Group, If Applicable: Packing Group III

14.5. Environmental Hazards: Classified as a marine pollutant.

14.6. Guidance on Transport in Bulk (According to Annex II of MARPOL 73/783 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)): EMS-No: F-A, S-F

14.7. Other Special Precautions Related to Transport: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging and combination packaging containing inner packaging with Dangerous Goods > 5 L for liquids or > 5 kg for solids.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Product in Question:

SARA 302/313 Components

SARA 302: This material is not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute health hazard.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

WHMIS Hazard Class

D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

16.1. Revision Date: 28 Mar 2024

16.2. Reason for Revision: A mistake was identified in the previous version (25 MAR 2021), which listed this product as containing chemicals regulated under California Prop. 65. This product does not contain any regulated chemicals. Section 15 was revised to reflect this change.

16.3. Additional Information: None.

Disclaimer: Mirus Bio LLC believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Mirus Bio LLC does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling.