



BAC Water - 10 mL

Product: BAC Water - 10mL

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Section 1 - Product and Company Identification

Product Name	BAC Water - 10mL
Chemical Name	Sterile water with 0.9% benzyl alcohol preservative
Synonyms	Reconstitution solution; Bacteriostatic water; BWFI; Bac water
Catalog / SKU	BAC-WATER-10ML
Product Category	Research Supplies
Recommended Use	Laboratory research use only. Not for human or veterinary consumption.
Supplier	Peptogenesis
Address	9905 S Pennsylvania Ave STE A, Oklahoma City, OK 73159
Website	https://peptogenesis.com
Email	support@peptogenesis.com
Phone	539-281-5659
Emergency Phone	1-800-222-1222 (US Poison Control, 24 h)

Section 2 - Hazard Identification

GHS Classification: Not classified as hazardous under OSHA HCS (29 CFR 1910.1200) or GHS criteria based on available finished-mixture information.

Signal Word: Not applicable

GHS Pictogram: None required (not classified as hazardous).

Hazard Statements: No hazard statements required under GHS.

Precautionary Statements: Use general laboratory precautions. Wear protective gloves and eye protection. Avoid unnecessary contact.

Section 3 - Composition / Information on Ingredients

Multi-component aqueous solution. Chemical identities:

Ingredient	CAS Number	Mol. Formula	Mol. Weight	Concentration / Amount
Water	7732-18-5	H ₂ O	18.02 g/mol	Balance (~99.1%)
Benzyl alcohol	100-51-6	C ₇ H ₈ O	108.14 g/mol	0.9% w/v

Product grade: Research-grade aqueous solution. Water constitutes greater than 98% of the finished formulation; benzyl alcohol is present at 0.9% w/v as preservative.

Impurities: No hazardous impurities are known to be present above applicable GHS classification thresholds based on available information. Peptide synthesis residues and counter-ions are not applicable to this aqueous solution.

Section 4 - First-Aid Measures



Inhalation: Move to fresh air if mist or aerosol is inhaled. Seek medical attention if symptoms develop or persist.

Skin Contact: Wash affected area with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice if symptoms occur. Contact Poison Control (1-800-222-1222) if needed.

Most Important Symptoms: No specific finished-mixture symptoms established. Contact may cause transient irritation in sensitive individuals.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.

Unsuitable Extinguishing Media: None known.

Specific Hazards: The product is predominantly water. Under fire conditions, decomposition of the preservative may produce carbon oxides.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective clothing as appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

Personal Precautions: Avoid contact with eyes and prolonged skin contact. Wear appropriate laboratory gloves and eye protection. Avoid generating mist or aerosol.

Environmental Precautions: Prevent large uncontrolled releases to drains, waterways, or the environment.

Containment and Cleanup: Contain spilled liquid. Absorb with an inert material and place in a suitable labeled container for disposal. Rinse the affected surface with water after collection.

Section 7 - Handling and Storage

Handling: Use normal laboratory handling practices. Avoid splashing and unnecessary aerosol generation. Avoid contact with eyes and prolonged skin contact. Wash hands after handling.

Storage: Store at 15-25°C, protect from light. Do not freeze.

Incompatibilities: Strong oxidizing agents; strong acids and bases.

Section 8 - Exposure Controls / Personal Protection

Exposure Limits: No occupational exposure limit has been established for the finished mixture.

Engineering Controls: General laboratory ventilation is normally adequate.

Personal Protective Equipment (PPE):

- Respiratory protection: Not normally required with adequate ventilation; avoid mist or aerosol generation.
- Hand protection: Chemical-resistant nitrile gloves.
- Eye protection: Safety glasses with side shields or chemical safety goggles.
- Skin and body protection: Laboratory coat and closed-toe footwear.

Section 9 - Physical and Chemical Properties

Appearance	Clear colorless sterile aqueous solution
Odor	Odorless to faint characteristic odor
Odor Threshold	Not available



pH	4.5-7.0
Melting / Freezing Point	Not determined
Initial Boiling Point and Boiling Range	Not determined
Flash Point	Not determined for the finished mixture
Evaporation Rate	Not determined
Flammability	Not classified as flammable
Upper / Lower Flammability or Explosive Limits	Not available
Vapor Pressure	Not determined
Vapor Density	Not determined
Relative Density	Not determined
Solubility(ies)	Miscible with water
Partition Coefficient: n-octanol/water (log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not determined

Section 10 - Stability and Reactivity

Reactivity: No hazardous reactivity expected under normal storage and handling conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None known under normal conditions.

Conditions to Avoid: Excessive heat, direct sunlight, and freezing.

Incompatible Materials: Strong oxidizing agents; strong acids and bases.

Hazardous Decomposition Products: Carbon oxides may form if the preservative decomposes under fire conditions.

Section 11 - Toxicological Information

Routes of Exposure: Skin contact, eye contact, accidental ingestion, and inhalation of mist or aerosol.

Acute Toxicity: No specific acute-toxicity data are available for the finished mixture.

Skin Corrosion / Irritation: Finished-mixture data not available. Avoid prolonged contact.

Serious Eye Damage / Irritation: Finished-mixture data not available. Avoid eye contact.

Respiratory or Skin Sensitization: No finished-mixture data available.

Germ Cell Mutagenicity: No finished-mixture data available.

Carcinogenicity: No finished-mixture classification established.

Reproductive Toxicity: No finished-mixture data available.

STOT - Single Exposure: No finished-mixture data available.

STOT - Repeated Exposure: No finished-mixture data available.



Aspiration Hazard: Data not available for the finished mixture.

NOTE: This product is supplied for laboratory research use only. Handle using standard laboratory precautions.

Section 12 - Ecological Information

Ecotoxicity: No ecotoxicological data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Avoid release to the environment.

Section 13 - Disposal Considerations

Waste Treatment: Dispose of contents and container in accordance with local, state/provincial, and federal regulations. Do not release to drains, waterways, or the environment. Contact a licensed hazardous waste disposal service if necessary.

Section 14 - Transport Information

UN Number	Not regulated
UN Proper Shipping Name	Not regulated for transport
Transport Hazard Class (DOT / IATA / IMDG)	Not classified
Packing Group	Not applicable
Environmental Hazards	Not classified as a marine pollutant
Special Precautions	Protect from physical damage and temperature extremes. Do not freeze.

Section 15 - Regulatory Information

- United States (OSHA): Complies with the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- TSCA Inventory: Research use only. Not evaluated for TSCA listing.
- SARA Title III (Sections 302, 304, 311, 312, 313): Not listed.
- California Proposition 65: Not listed.
- Canada (WHMIS): Not classified as a controlled product.
- This product is sold for laboratory research use only and is not intended for human consumption, veterinary use, food use, or cosmetic use.

Section 16 - Other Information

SDS Version	1.1
Date Prepared	2026-08-17
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Prepared By	Peptogenesis Compliance
Issued By	Peptogenesis 9905 S Pennsylvania Ave STE A, Oklahoma City, OK 73159



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Reference Standards	29 CFR 1910.1200 Appendix D; ANSI Z400.1
Revision Summary	Corrected composition, identity, and handling language; Peptogenesis reissue.

Key to abbreviations: CAS = Chemical Abstracts Service; GHS = Globally Harmonized System; HCS = Hazard Communication Standard; IARC = International Agency for Research on Cancer; LC50 = Lethal Concentration, 50%; LD50 = Lethal Dose, 50%; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OEL = Occupational Exposure Limit; OSHA = Occupational Safety and Health Administration; PPE = Personal Protective Equipment; STOT = Specific Target Organ Toxicity; SDS = Safety Data Sheet; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

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