

Bacteriostatic Water

Sterile Water for Injection with Benzyl Alcohol · 3 ML · USP Grade

Bacteriostatic Water is a sterile, non-pyrogenic solution of water for injection containing 0.9% (9 mg/mL) benzyl alcohol as a bacteriostatic preservative. This solution is designed for reconstituting lyophilized peptides and maintaining sterility across multiple withdrawals from the same vial. The benzyl alcohol preservative inhibits bacterial growth in multi-dose containers when proper aseptic technique is maintained, enabling reliable peptide reconstitution for research applications.

Composition & Specifications

	Benzyl alcohol 0.9% (9 mg/mL) — bacteriostatic preservative that inhibits bacterial growth through disruption of bacterial cell membrane integrity.
	Sterile water for injection USP — purified, non-pyrogenic water meeting United States Pharmacopeia standards for parenteral use.
	pH 4.5 - 7.0 — adjusted with hydrochloric acid or sodium hydroxide as needed to maintain stability and compatibility with peptide reconstitution.

Research Applications

01	Lyophilized peptide reconstitution for in vitro research applications
02	Multi-dose vial preparation maintaining sterility across multiple withdrawals
03	Dilution of research compounds requiring bacteriostatic preservation
04	Standard vehicle control in comparative peptide solubility studies

Handling & Storage Guidelines

Storage	Store at controlled room temperature 20-25°C (68-77°F). Protect from freezing. Brief excursions to 15-30°C permitted.
After Opening	Discard within 28 days of first puncture. Mark vial with date of first use. Do not use if solution is cloudy or contains particulate matter.
Aseptic Use	Use strict aseptic technique for all withdrawals. Swab rubber stopper with alcohol before each puncture. Use sterile needles and syringes only.
Contraindication	Not for use in neonates or infants. Benzyl alcohol has been associated with toxicity in neonatal populations and should not be used in this group.

■ FOR RESEARCH USE ONLY · NOT FOR HUMAN OR ANIMAL USE · NOT FOR NEONATAL USE