Reconstitution & Laboratory Fundamentals

3 compounds | Research Peptides Co. | 2024-2025 Research Library | Generated: May 6, 2026

Research Basis: *Standard laboratory protocols based on USP guidelines, WHO pharmaceutical standards, and best practices from major research institutions.*

Bacteriostatic Water (BAC Water)

Dosage	N/A — solvent
Route	Reconstitution solvent
Cycle / Duration	N/A
Research Purpose	0.9% benzyl alcohol in sterile water. Standard solvent for peptide reconstitution. Inhibits bacterial growth for multi-use vials. Use 1–2 mL per vial depending on desired concentration.
Key References	*USP <1> General Notices; WHO Technical Report Series No. 970 (2023)*

Sterile Water for Injection

Dosage	N/A — solvent
Route	Reconstitution solvent
Cycle / Duration	N/A
Research Purpose	Pyrogen-free sterile water for single-use reconstitution. Preferred for peptides sensitive to benzyl alcohol. Must be used within 24 hours of reconstitution.
Key References	*USP <1231>; FDA Guidance for Industry: Sterile Drug Products (2023)*

Acetic Acid (0.1–1%)

Dosage	N/A — solvent
Route	Reconstitution solvent
Cycle / Duration	N/A
Research Purpose	Dilute acetic acid solution used for peptides with poor aqueous solubility (e.g., IGF-1, GH fragments). Improves solubility of hydrophobic peptides. Dilute with BAC water after initial dissolution.
Key References	*Sigma-Aldrich Peptide Reconstitution Guide (2024); Bachem Technical Notes (2023)*