VYRAX LABS

LABORATORY REFERENCE / IN-VITRO ONLY

Research Peptide Reconstitution Laboratory Preparation Guide

Scope. For trained laboratory staff preparing research peptide samples for in-vitro analytical work. Follow the material documentation and facility SOP; this guide does not establish a universal diluent, sterility, stability period or storage condition.

01 Plan the preparation

Confirm identity, lot, stated mass and documentation. Select a compatible, lab-approved diluent and target final volume for the assay. Check vessel integrity and record the plan before opening.

02 Use aseptic technique

Work in an approved clean area with appropriate PPE and sterile, single-use transfer materials where asepsis is required. Disinfect work surfaces and vial closures per SOP; let disinfectant dry. Avoid touching sterile contact surfaces and replace any item if contamination is suspected.

03 Reconstitute for analysis

Introduce measured diluent into the sample vessel by controlled transfer, minimizing splash and aerosol. Mix gently until visually uniform, unless documentation specifies otherwise. Clarity alone does not establish identity, sterility or full recovery.

CONCENTRATION EXAMPLE

Mass ÷ final solution volume = concentration

5 mg ÷ 2.0 mL final volume = 2.5 mg/mL (2,500 µg/mL)

Use the verified final volume, not an assumed volume.

04 Label & trace

On each vessel record sample name and ID; source lot; initial mass; diluent and its lot; final volume and calculated concentration; preparation date/time; preparer; and storage location/condition. Add a retest or discard date only when supported by documentation or SOP.

05 Store as documented

Use documented product-specific conditions and suitable sealed vessels. Log location, transfers, relevant freeze-thaw events and deviations. Do not infer a generic shelf life.

06 Dispose responsibly

Segregate unused material, transfer supplies and broken glass under facility waste procedures and local rules. Never return surplus to stock; log disposal by sample ID.

RESEARCH USE ONLY

In-vitro laboratory sample preparation. Not for human or animal use.