

Alpha-Factor

1mM stock and 10⁻⁷M final
Use 1:10,000 dilution

How to resuspend a-f

You must know the peptide content (how pure the peptide is).

Weigh out an amount.

Calculate how much H₂O to resuspend in (see below for calculation).

Resuspend in ddH₂O.

Make 200mL aliquots in small tubes.

Freeze at -20°C for up to 6mo.

Freeze at -80°C for longer than 6mo.

Want:

1mM a-f

Have:

Amount weighed

Purity of peptide

Molecular Weight of 1684

$(\text{Amount weighed})(\text{purity})(1/\text{concentration wanted}) = \text{mL used to resuspend}$

Example

Want:

1mM a-f = 1.684mg/mL

Have:

10.7mg

55.43% peptide content

Molecular Weight of 1684

$(\text{weight}) (\text{purity}) (1/\text{concentration wanted}) = \text{mL used to resuspend}$

$(10.7\text{mg}) (55.43/100) (1\text{mL}/1.684\text{mg}) = 3.52\text{mL}$

Note: The Rockefeller University a-f made around Aug 07 is 55.43% pure.