Peptide Solubility Test Report

Name	LTX
Order ID	U5663DI180-5
Lot No.	97010350005/PE0342
Sequence	KKWWKKW{Dip}K

Solvent	Results (Dissolved or Undissolved)	Gross Peptide Concentration
ultrapure water	**Dissolved**	≦ 10 mg/mL
1x DPBS*(pH 7.1±0.1)	**Dissolved**	≦ 10 mg/mL
DMSO*	**Dissolved**	≦ 20 mg/mL
Others*	**N/A**	N/A

DMSO dimethyl sulfoxide(Analytical grade);

DPBS Dulbecco's Phosphate Buffered Saline, containing Potassium Chloride(KCl),Potassium Phosphate monobasic (KH2PO4), Sodium Chloride (NaCl) and Sodium Phosphate dibasic (Na2HPO4-7H2O).

Comments:

1. Solubility less than 0.1 mg/ml is defined as 'Undissolved'. Otherwise, it will be defined as 'Dissolved', and an estimated concentration range will be provided.

2. For preparing solutions in aqueous-based buffers (or your desired buffer), which keeps the pH of a solution relatively constant as required for many biochemical processes, it is recommended to first dissolve the peptide in a minimum soluble amount of water (e.g. 1 ml water for 1 mg peptide if the solubility is 1 mg/ml) and then re-adjust the solution composition with pre-made concentrated buffer, e.g., adding 1 part (v: v) 10Xdpbsto 9 parts (v: v)solubilized peptide to obtain the required 1x PBS peptide-solution.

3. Peptides containing Cysteine (C), Methionine (M) or Tryptophan(W) are sensitive to oxidation by DMSO. We advise that peptides dissolved in DMSO be used immediately or stored at -20°C (or preferably −80°C) prior to use.

4. When the peptide is neither soluble in water or DMSO in our tests, please refer to the above table for other suggested solvents.

5. Please note that distinct dissolution behaviors may happen between small amounts and large amounts of gross peptide in the same solvent. Generally, larger amounts of peptide take longer to dissolve. A brief incubation at warm temperatures (<40°C) or sonication can assist in dissolving the peptide.

Tested by: Amy

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