**Protocol A: Protein Solubility Profiling**

**Goal:** identify conditions that keep protein solubilized  
**Material:** non-aggregated protein sample (100 µL – 2 mL)

**Protocol:**
1. Mix aliquots of protein sample with solutions from Reagent Plate in Reaction Plate (i.e. 96 x 20 µL protein + 150 µL OptiSol reagent). We recommend to obtain the reference reading of OptiSol Reagents (without protein) for more accurate results.
2. Apply aggregation stress (i.e. heat to 37°C; incubate over night or 2 weeks; 20 x freeze/thaw cycles; shear through narrow-bore needle;...).
3. Fill into Filter Plate and assemble Stack (Filter Plate on top, Collection Plate on bottom) and spin 30 min @ 3,000 rpm.

**Protocol B: Solubilize Aggregated Protein**

**Goal:** identify conditions that solubilize an aggregated protein sample  
**Material:** aggregated protein sample (100 µL – 2 mL)

**Protocol:**
1. Fill aliquots of aggregated protein sample into Reaction Plate (i.e. 96 x 20 µL protein + 150 µL OptiSol reagent). We recommend to obtain the reference reading of OptiSol Reagents (without protein) for more accurate results.
2. Mix and incubate for more than 10 min.
3. Fill into Filter Plate and assemble Stack (Filter Plate on top, Collection Plate on bottom) and spin 30 min @ 3,000 rpm.
## OptiSol™ Protein Solubility Screening Kit

### Product Information

**Content:**
- 1 x 96 well OptiReagent Plate
- 1 x 96 well Filter Plate
- 1 x 96 well Collection Plate
- Quick Start Guide and MSDS

**Purpose**

**OptiSol Protein Solubility Screening Kit**

Systematic solution design and array-based filtration technology for:

- Protein Solubility Profiling
- Solubilizing of Aggregated Protein Sample

For updated instructions and additional information please refer to www.solublebioscience.com

### Order Information

- **OptiSol Kit I**
  - cat. #SOL-102-001
  - $269.00 USD

- **OptiSol Kit II**
  - cat. #SOL-102-002
  - $269.00 USD

- **OptiSol Kit III**
  - cat. #SOL-102-003
  - $269.00 USD

- **OptiSol Kit IV**
  - cat. #SOL-102-004
  - $269.00 USD

*Kits can be purchased in 3 pack at discount for $749.00 USD

**SolubleBioScience, Inc.**

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AL 35203, USA

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info@solublebioscience.com
Phone: 205-206-4600

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### Reagent Listing

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* pH values for buffers used only; * each amino acid is 50 mM