CYCLOLAB

The Cyclodextrin Company

User's guide for Dexolve™

A simple 3-step manual for successful dissolution of your drug substance

the EP/USP compliant SBECD of Cyclolab Ltd.

Dexolve™

for Improved Pharmaceutical Formulations

STEP 1

Weigh in the following Dexolve™ amounts into 20 ml vials and prepare solutions with the given volume of distilled water:

Dexolve ™*	Distilled water
3.0 g	7.0 mL
2.0 g	8.0 mL
1.0 g	9.0 mL
0.5 g	9.5 mL

****for accurate results take the water content of Dexolve™ into consideration***

Use stirrer bar and magnetic stirrer.

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STEP 2

- **After the complete dissolution of Dexolve™, add ~50 mg or appropriate volume of your drug (candidate) to each vial. Should you be short of material, take smaller volume of the Dexolve™ solutions and dispense reduced amount of your substance, accordingly.**

- **Stir the resulting suspensions for 24 hours at room temperature. If your substance is sensitive, then cool your samples and protect them from light in the meantime.**

- **Observe the vials. If your substance completely dissolves upon stirring, dispense additional amount of your substance. Always ensure excess of material to be dissolved.**

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STEP 3

- When finished, filter the suspensions through PVDF syringe filters.

- Analyze the filtrate for your drug content.

- Establish relationship between the concentrations of Dexolve™ and the solubilized amounts of drug substance. Compare the data with the pure aqueous solubility of your substance.

In case you need technical help to facilitate the dissolution or to improve the solubilizing potency further, contact us!

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Why use Dexolve™? Possibilities…

- Significant solubility enhancement (10 to 100,000 fold)
- Improvement of chemical stability
- Increased bioavailability, facilitated delivery
- Reduced aggregation
- Moderate irritation or reduced side-effects
- Maximized patient safety, complete renal elimination
- Enables formulation of water-insoluble APIs in all dosage forms
- Lower API doses can be achieved