

LEAD SELECT



intravenous

USER GUIDE DISCOVERY KIT

Lead Select IV is an intravenous dosing vehicle for poorly water soluble research compounds.

Contents:

- 1 x vial (10 mL) of Liquid A (transfer medium)
Store at Room Temperature
- 6 x vials (4.5 mL) of Liquid B (lipid dispersion)
Store at 2–8°C
- 6 x unsterile empty vials (6 mL) with screw caps
- 12 x disposable sterile syringes (1 mL) with needles
- 6 x disposable sterile filters

Equipment required:

- Balance
- Sonicator bath
- Vortex mixer

Directions for use

The following directions are suggestions for producing **5 mL** of a final dosing vehicle containing up to **10 mg** i.e. **2 mg/mL** of your insoluble compound.

The amounts may be scaled up or down proportionally depending upon your dosing requirements but the ratio of Liquid A to Liquid B must always be kept constant.

A two step preparation procedure is recommended

1. Dissolve compound in Liquid A
2. Inject compound dissolved in Liquid A into Liquid B



If you have any questions or feedback on your use of Phares Lead Select IV please let us know:

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STEP ONE:

Dissolve compound in Liquid A

1. Weigh 11 mg of compound into an empty 6 mL vial
2. Withdraw 0.55 mL of Liquid A with a 1 mL syringe and add to the vial containing compound
3. Seal the vial with the screw cap supplied and place in a sonicator bath with intermittent vortex mixing until the compound has fully dissolved
4. If the compound does not dissolve within 1 hour, optionally heat for 2 hours to try to obtain a clear solution. It is recommended not to heat above 50°C
5. If the solution is clear, allow to cool to room temperature and proceed to Step 2 below only if the solution does not recrystallize at room temperature.

STEP TWO:

Inject compound dissolved in Liquid A into Liquid B

1. Withdraw 0.5 mL of the compound dissolved in Liquid A into the 1 mL syringe equipped with a needle
2. Invert the vial and gradually inject 0.5 mL of compound dissolved in Liquid A into the vial containing the 4.5 mL of Liquid B, whilst swirling gently



Note:

During long-term storage, occasionally small lipid aggregates may be formed in Liquid B. They can easily be re-dispersed by shaking or removed by using an (in-line) filter of 0.2µm PVDF or PTFE pore size.

When using syringes with needles please take due care to avoid needle stick injury.

Administering vehicle intravenously in animals

- i. Using an appropriately sized syringe (not supplied in this kit) withdraw the required amount of compound loaded vehicle
- ii. Remove the needle from the syringe and attach filter provided
- iii. Attach a new sterile needle (not supplied in this kit) to this filter
- iv. Slow intravenous infusion or slow bolus injection is mandatory

Optionally, if you would like to dilute the compound loaded vehicle, isotonic 5% glucose should be used.

The compound loaded vehicle should generally be used within one hour after preparation. However, this time may be extended depending on the physical and chemical stability characteristics of the compound loaded vehicle.