



Lead Select Pre-Clinical User Guide



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

Lead Select Products required

100 mL Liquid B (Lipid Dispersion). Store at 2-8°C. Shake before use.

12 mL Liquid A (Transfer Medium). Store at Room Temperature.

Additional Equipment required

Balance

Sonicator bath

Vortex mixer

20 mL empty vial with a lid

20 mL syringe

Aspiration needle

Syringe & filter for intravenous injection

DIRECTIONS FOR USE

The following directions are suggestions for producing about 111 mL of a final dosing vehicle containing 2 mg/mL of your insoluble compound in a single unit. The amounts may be scaled up or down proportionally depending upon your dosing requirements but the proportion of Liquid A to Liquid B must always be kept constant: in the ratio of 9:1.

A two step preparation procedure is recommended

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

STEP ONE

Dissolve compound in Liquid A

1. Weigh 230 mg of compound into an empty 20 mL vial
2. Withdraw 11.5 mL of Liquid A with a syringe and add to the vial containing compound
3. Seal the vial with a lid 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 11.1 mL of the compound dissolved in Liquid A into a syringe equipped with a needle.
2. Insert an aspiration needle into the Liquid B vial.
3. Gradually (over two minutes) inject the 11.1 mL from the syringe into the Liquid B vial, whilst swirling gently. Caution: If no aspiration needle is used there may be over pressure from the syringe.
4. The resultant compound loaded vehicle should be optically clear.

Administering vehicle intravenously in animals

- i. Using an appropriately sized syringe withdraw the required amount of compound loaded vehicle
- ii. Remove the needle from the syringe and attach a sterile filter with a pore size of 0.22 µm
- iii. Attach a new sterile needle 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 modified depending on the physical and chemical stability characteristics of the compound loaded vehicle.

Note:

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

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

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



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