

USER GUIDE

LONG ACTING INJECTABLE ADAPTER, USP 2 (part number 122630)

The Long Acting Injectable Adapter, USP 2, enables dissolution testing of long-acting injectables and other extended-release dosage formulations using a USP 2 Dissolution Apparatus. The adapter accommodates samples from 5 μL – 100 μL in volume.

ADDITIONAL MATERIALS NEEDED (not included)

- ✓ 13mm diameter PVDF filter membranes (choose appropriate pore size for the particle size of the formulation)
- ✓ Tweezers
- ✓ Long Tongs

INSTRUCTIONS

1 Unpacking

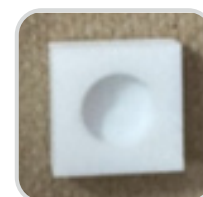
- Unpack components from the packaging.
- Clean both components with isopropyl alcohol IPA.

2 Activation of filter membrane

- Soak the membrane in dissolution media to help the membrane adhere to the filter cap during assembly.



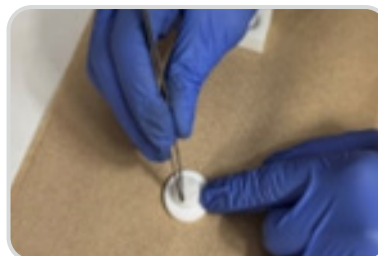
Filter Cap



Sample Holder

3 Assembling the LAI adapter

- Place both filter cap and sample holder on a stable, clean surface.
- Carefully position the filter onto the filter cap.
- Gently press around the edge of the filter to ensure it adheres properly to the plastic ring.

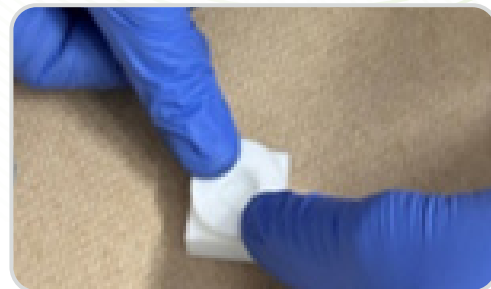


Gently press the filter to the plastic ring to ensure it adheres properly.

4 Sample Loading



Load formulation into the sample holder cavity. Avoid any disturbance to the sample holder to prevent the formulation from spreading.



Gently snap the filter cap onto the sample holder with minimal disturbance.

5 Introducing LAI adapter into USP 2 apparatus

- Confirm the USP 2 apparatus is ready for use. The vessels should be pre-filled with media and equilibrated at the desired temperature.
- Carefully hold the adapter with a pair of long tongs and gently place it into the bottom of the dissolution vessel. This step should be performed slowly and steadily with utmost care.



6 Cleaning of adapter

- Once the test is completed, carefully remove the adapter from the vessel and disassemble it. Dispose the filter membrane in an appropriate waste container.
- Place both parts of the adapter in IPA or ethanol and sonicate for 15 minutes.
- Repeat the sonication step using clean deionized water.
- Rinse the adapter thoroughly with deionized water and allow it to dry.