Corning® Lambda™ EliteMax Semi-automated Benchtop Pipettor

Frequently Asked Questions

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General

1. **How do I operate this instrument?**

   For operating instructions, refer to the Corning Lambda EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

2. **What items come with this instrument?**

   Each instrument is delivered with a touch screen controller, external power supply, portrait adapter plate, instruction manual, and calibration certificate. Note that due to the length of the instruction manual, it will come on a thumb drive in an effort reduce printing and increase sustainability.

3. **What plug types come with the external power supply?**

   Each instrument is delivered with the following plug types: United States (US), United Kingdom (UK), Europe (EU), and China (CN) plug types.

4. **What are the minimum and maximum volumes the liquid handler dispenses?**

   The dispenser has a volume range from 1 to 200 µL. The unit has been tested down to 2 µL with accuracy and precision less than 5%, and at 1 µL has about 10% accuracy and precision.

5. **What types of protocols is the unit capable of running?**

   Plate fillings, serial dilutions, plate-to-plate transfers, plate replication, sample preparation, cherry picking protocol (for single-channel head only), and other more complex protocols can be implemented. For performance specifications, refer to the Corning Lambda EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

6. **What is the maximum volume of tips for a mixing protocol?**

   When doing multiple aspirate and dispense, we recommend using 150 µL as the maximum since there is residual volume after each aspirate/dispense cycle.

7. **What is the lowest volume I could use for mixing?**

   The recommended minimum volume for mixing is 5 µL. Depending on the volume in the plate, a volume lower than 5 µL may result in insufficient mixing.

8. **Is the tip removal manual or can it be done using the software?**

   Manual ejection is not required as the tips are ejected automatically back into the tip rack.

9. **Is it possible to pipet different volumes from different wells in the same plate?**

   This is possible when using the cherry picking protocol (for single-channel head only), but is not possible in other protocols.

Software

1. **How do I access the software for the instrument?**

   The touch screen controller has the software preloaded on the device and no download is required.

2. **What happens if there is a software update?**

   To be notified of any software updates, follow the registration instructions on the instruction manual thumb drive. For software update instructions, refer to the Corning® Lambda™ EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

3. **What do I do if the system crashes?**

   The instrument has collision detection features and will notify the user about a possible crash. For more details about the crash recovery routine, refer to the Corning Lambda EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

Pipet Tips

1. **What kinds of pipet tips are compatible with this instrument?**

   This instrument is designed to be used with Axygen® FX tips only and should not be operated with any other types of tips.

2. **What are the Axygen FX tip types and tip size ranges?**

   The Axygen FX tips are polypropylene, 96-well ANSI/SLAS formatted racked tips with volumes of 20, 30, 50, 165, and 250 µL. Sterile and non-sterile versions are available for all tip sizes, and wide bore tips are available in both 165 and 250 µL sizes.

3. **What types of reagents are compatible with the Axygen FX tips?**

   For a list of reagents compatible with polypropylene tips, refer to the Chemical Resistance Chart (CLS-DL-CC-082) at www.corning.com/lifesciences.

4. **Can the tips be discarded after use?**

   Yes, tips can be discarded into an empty tip rack in the Serial Dilution protocol and when using a single-channel head. The single-channel can discard tips into an empty rack, whereas while using the Serial Dilution protocol the tips can be discarded in a waste reservoir in position AA, BB, CC, DD or EE, depending on the program.

Other

1. **Can this instrument fit under a hood?**

   Yes. The instrument is designed to fit under any standard sized hood. The dimensions of the instrument and touch screen controller can be found in the Corning Lambda EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

2. **What plates and reservoirs are compatible with this instrument?**

   All standard ANSI/SLAS formatted plates and reservoirs are compatible with this instrument.

3. **How do I switch from portrait to landscape position on the deck plate?**

   Use the adapter plate to transition between portrait and landscape positions. For more information, refer to the Corning Lambda EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

4. **Can this instrument be used with UV light?**

   Yes. The instrument can be used with UV light. Note that long exposure to UV light might fade the colors but won't affect the operation or performance of the instrument.

5. **What is ANSI/SLAS format?**

   This standard defines the well center positional requirements of a microplate as specified in American National Standards covering these microplates (as referenced at www.slas.org).

6. **What are the performance specifications and technical data?**

   For performance specifications and technical data, refer to the Corning® Lambda™ EliteMax Semi-automated Benchtop Pipettor Instruction Manual (CLS-AN-671DOC) at www.corning.com/lifesciences.

7. **What happens when the power shuts off during a run?**

   When the power goes off during a run, the run is stopped and the progress is lost. When the power comes on, the unit will return to home the axis.

8. **How can I change the plates from landscape position to portrait position?**

   The plate orientation is predetermined before running the protocol – either landscape or portrait. The portrait adapter is included with the instrument and goes in position BB when running portrait protocols.

9. **How long does it take to seed the cells per plate?**

   The speed depends on the protocol, however it takes about 1.5 minutes to fill the entire plate.

10. **Is it possible to remove and store the media supernatant from the spheroid plate on another plate?**

    Yes, a plate-to-plate transfer can achieve this. The spheroid plate should be set as the source plate, and the empty plate will be the destination plate.

11. **Is the Corning EliteMax benchtop pipettor suitable for biological (human) plasma and serum?**

    The instrument has been confirmed to be able to handle cell culture which contains serum and should be suitable for working with plasma and serum.

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