

PATsmart™ REBEL® System

Quick Reference

SW version 1.3 and above

For 24/7/365
Customer Support:
TechSupport@repligen.com

Initialize REBEL

1. Manually toggle power switch to ON position.
2. Ensure the waste bottle is empty (bottle with red tape).
3. Ensure the condensate tray is empty.
4. Check System Status for expiration dates (BGE and standards) and remaining samples on chip.
5. Load PATsmart™ REBEL® standards into F1–F7 in right vial holder (blue capped vials must be in F1–F2 positions). If using new Standards, reset the counter:
System Settings > System Status > Standards > Replace.
6. BGE: Replace empty BGE bottle with a new one. Attach cap with dip tube, ensuring tube is fully submerged in BGE.
If using new bottle, reset the counter:
System Settings > System Status > BGE > Replace.
7. If the chip does not have enough samples to perform the analysis, either reduce the number of samples/replicates, or replace the chip:
 - a. Select **System Settings > System Status > Chip > Replace.**
 - b. Carefully remove the Chip Cover
 - c. Remove old chip and seat the new chip (barcode up) into the matching recess until flush.
DO NOT TOUCH THE GLASS TIP
 - d. Flip assembly over with barcode down.
Carefully clip assembly into REBEL chip carrier; it must be flush on two sides.
8. Run a Self-Test to determine system health:
System Settings > Tools > Self-Test.

Quantitative Calibration

1. Go to **System Settings > Tools > Quantitative Calibration > Start.**
2. Follow on-screen prompts and complete the checklist.
3. Press **Start** on the home screen.
4. In Timeline, view Queue in progress and Quantitative Calibration results once completed.

Range Finding Tool

1. Go to **System Settings > Tools > Range Finding**
2. Select the dilutions to test on the display and prepare the dilutions for analysis.
3. Load sample dilutions in left sample tray as shown on screen.
4. Press **Start** on the home screen.

Results of the Range Finding are displayed on screen or can be exported to USB/Network.

Set Up a Batch

1. Load sample dilution in left sample tray.
2. Select the Plus icon (“+”) to set up a new batch.
3. In manual mode, use the onscreen keyboard to set batch name, tray size, replicates, and sample information; OR, fill in a batch run sheet template (Excel) and import it by selecting **Import Runsheet.**
4. Once sample list is complete on the REBEL screen, press **Add Batch to Queue.**
5. Press **Start** on the home screen.
6. Results are automatically exported to the file “*ExperimentName*-results.csv” and can be exported by USB or automatically to the network.

Shut Down

1. Go to **System Settings > System Status** and follow on-screen prompts to empty waste bottle and condensate tray.
2. Go to **System Settings > Shut Down REBEL > Full REBEL Shutdown.**
3. Follow on-screen prompts to:
 - a. Remove BGE and cap bottle.
 - b. Place empty bottle under BGE line for cleanliness during dry cycle.
4. Remove vials-standards from right tray and refrigerate if they will be reused within shelf life.
5. Manually toggle power switch to the OFF position.