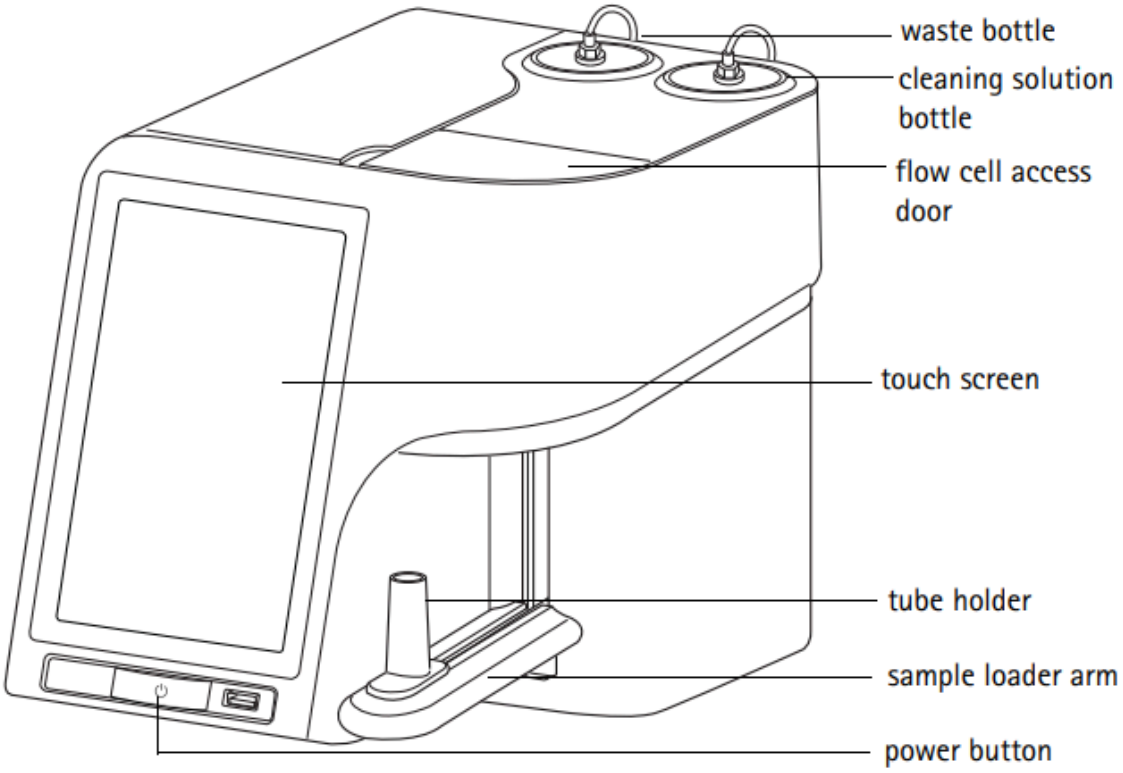
Muse System Check Kit Verifies the performance of the system by assessing counting accuracy and fluorescence detection using a standardized fluorescent bead reagent. The kit contains a bead reagent and diluent.

Muse™ Count & Viability Kit Used to determine viability and total cell count. Accurate assessments can be made with a wide variety of cell lines, even those with unusual culture conditions or a tendency to aggregate.



PART 1: Instrument Setup (First-Time Only)

1. Unpack and Position

- Carefully remove the Muse from the shipping box and save all packaging.
- Place it on a **stable surface** away from vibrations.

2. Connect Fluid Bottles

- Connect **color-coded fluid tubing** to the back of the instrument.
- Fill **waste bottle**: add **~10 mL bleach** (to first fill line).

- Fill **cleaning solution bottle** to the indicator line with **Guava ICF**.
- Insert bottles into their matching receptacles and connect the tubing.

3. Insert Flow Cell

- Open the access door and follow flow cell insertion (unclear about this)

4. Power On

- Plug the Muse into a grounded outlet. It turns on automatically the first time.

5. Log On as Administrator

- Select **Administrator** account on first login (p. 35).
  → *Important: Add a new Admin-level user to avoid losing access to data*.

6. Initial Cleaning

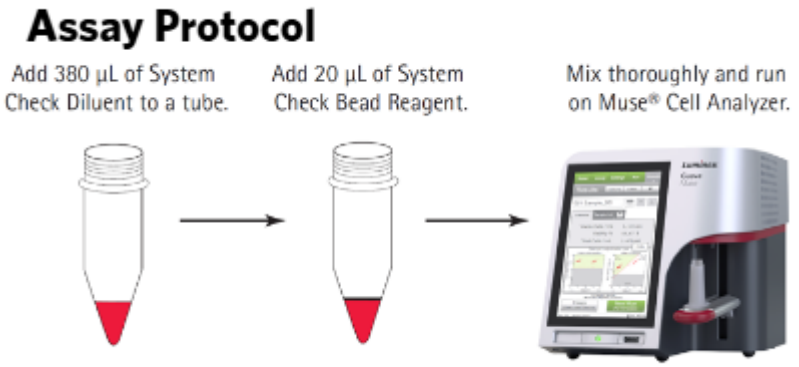
- Run **Complete System Clean** → do this **twice** on first use (Menu: Essential Tools > Complete System Clean). (p.63)

PART 2: Daily Startup Procedure

1. **Turn On Unit**
   - Press power button if not auto-on. Wait for touchscreen to initialize.
2. **Prepare Fluids**
   - Empty **waste bottle**, rinse, and refill with 10 mL bleach.
   - Refill **cleaning bottle** with Guava ICF to indicator line.
   - Reconnect fluid tubing.
3. **Reset Fluid Levels**
   - On touchscreen: Menu →System Check → Clean → Reset Fluid Levels.
4. **Run Complete System Clean**
   - Menu → Muse System Cleaning → Complete System Clean
     → Load full tube of **Guava ICF** → then **DI water**

→ Run until log confirms success.

5. **Run System Check**
    - Mix beads prior to making solution
    - Prepare **1:20 dilution** of **System Check Beads**.



    -
    - Menu → Essential Tools → System Check
    - Enter **Lot #**, **Expiration**, **Check Code** (found on bead kit card).
    - Mix beads, load tube, run **3 replicates**.
    - Confirm **PASS** status and **%CV ≤10%**.
    - Export results (optional).

Note: The values recorded during the replicates should be green/grey, meaning they fall within the expected range. If they are red, the values are too high/low;, and the system check will fail. This check is temperamental.

Values should be within 4.5*10^4 - 5.5*10^4.

PART 3: Daily Shutdown Procedure

1. **Run Complete System Clean**
    - Same as startup. Ends with DI water rinse.
2. **Leave DI Water Tube on Loader**
    - Never leave bleach or ICF on the system overnight.
3. **Power Down**

- Menu → Power Options → Power Off.

Maintenance log:

Date	User	Waste emptied	ICF refilled	System Clean	System check (p/f)	Notes
18/04/25	Aakriti	No	Yes	Yes	Pass	First use so did not empty waste
21/04/25	Aakriti	Yes	Yes	Yes	Pass	
24/04/25	Aakriti	Yes	Yes	Yes	Pass	

****When running samples need to run a aquick clean every 20 acquisitions.**