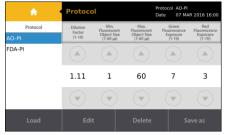




This Quick Start Guide provides instructions for using the LUNA-II YF™ with Acridine Orange/Propidium Iodide. For detailed instructions, please refer to the user manual in the supplied USB drive.



Main menu



Protocol screen



Count screen



Results screen

# 1. Select the AO-PI protocol.

- Select PROTOCOL from the main menu.
- Select the AO-PI protocol. Press Load.

## 2. Prepare the sample.

- Prepare a yeast suspension.
- Wash and dilute samples with Cell Dilution Buffer II as necessary.
  - ! Important! Prolonged incubation in Cell Dilution Buffer II can affect cell viability. Do not expose the cells to the buffer for more than 30 minutes prior to counting.
- Mix 18 µL sample with 2 µL Acridine Orange/Propidium Iodide Stain. Incubate at room temperature for 10 minutes.
- Load 10 µL mixture into a PhotonSlide<sup>™</sup>.

#### 3. Count cells.

- Select COUNT from the main menu.
- Insert the slide into the LUNA-II YF<sup>™</sup> slide port.
- Press [Light]. Switch between green (GF) and red (RF)
  channels and adjust the intensity of each channel as needed by
  pressing the light control bar arrows.
  - ! Important! Do this quickly to prevent photobleaching or adjust the light levels with one sample and count with another.
- Make sure the circle next to [Autofocused Counting] is yellow for autofocused counting.
- Press [Count] to start counting.

### 4. Review and save results.

- Press Image to view the captured image of the analyzed cell sample.
- Press Histogram & Gating to see a graphical representation of the cell count results.
- Press [Dilution] for the dilution calculator.
- Press [Save/Print] to save data to a USB drive or print data with an external printer. Data is automatically saved onboard the LUNA-II YF™ as a CSV file.



#### **EUROPE**