

Instruction for test of microplate absorbance readers

Microplate absorbance readers can be tested for lamp efficiency using Mercodias calibrator 0. The yellow colour of the calibrator 0 can be read at 450 nm. Checking the results of the absorbance read from the wells will determine the lamp function and the alignment when reading the plate.

Materials and equipment:

- Calibrator 0
- A calibrated multipipette with 2,5 or 5 mL tip is recommended. A single channel pipette or a multichannel pipette may also be used.
- Microplate, uncoated

Procedure

1. Measure an empty, uncoated microplate in the absorbance reader at 450 nm.
2. Pipette 100 µL calibrator 0 in each of the 96 wells of plate.
3. Measure the filled, uncoated plate in the absorbance reader at 450 nm.
4. Calculate the average absorbance and CV% for the entire plate, for each strip and for each row.

Results may be sent to Mercodia for evaluation.