

Instruction for test of microplate absorbance readers

Microplate absorbance readers can be tested for lamp efficiency using Mercodia's Diabetes Sample Buffer. Checking the results of the absorbance read from the wells will determine the lamp function and the alignment of the plate during readings.

Materials and equipment

- Diabetes Sample Buffer
- A calibrated multi-pipette 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 Diabetes Sample Buffer 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.
5. Results may be sent to Mercodia for evaluation.