

Benchmark Plus Microplate Reader from Bio-Rad

Reservations and Usage Policy

1. Introduction

A Microplate Reader located at the main laboratory of IBEC at the Hèlix building is available for use by all IBEC researchers.



The Benchmark Plus microplate reader from Bio-Rad can be used for **absorbance assays**. It has the capability to perform standard colorimetric ELISA and kinetic readings for general cell screening with 6, 12, 24, 96, and 384-well microplate formats. The microplate reader uses a xenon flash lamp as light source and has a “filter-less” design, with a wavelength range of 340-800 nm, which allows the user to set the

reading at any specific wavelength or perform a spectral scan across any wavelength range (within 340-800 nm) to find the absorbance curve. The reader is also equipped with:

- an incubation option to perform experiments in the temperature range up to 45°C (programmable in 0,1°C increments).
- Shaking mode, which allow the microplate to be shake 999 s. before doing the reading.

2. User Pre-requisites

- **Only IBEC researchers can use the Microplate Reader.**
- Before using the Microplate Reader you must read the User’s Manual. To obtain the User’s Manual, please contact the Core Facilities staff at corefacilities@ibecbarcelona.eu.
- After this, **you will get an individual account on the Microplate Reader computer.** With your personal user name and password you can access the computer locally to run the instrument or from your personal computer to retrieve your data.

Notice: You must change the password at the first log in to the computer.

You must not disclose your password to any person who is not authorized to use the instrument.

3. Reservations

- To access the instrument, you have to book it previously using the online booking application.
- If you are 30 minutes late after the start of the booking-time the whole reservation is considered cancelled and the equipment is available to everybody.
- Appointments that cannot be held must be cancelled as early as possible in order to free up the slots for other users.

4. Usage Rules

- Wear powder-free gloves and change them frequently to help prevent contamination of the samples.
- **To avoid instrument damage and sample spill, make sure that the type of microplate that is to be used for the measurement has the correct dimensions.** The instrument will accept any 6-well through 384-well plate with dimensions 128 mm (length) x 98 mm (width). Plate height cannot exceed 15 mm.
- Once finished your experiment, leave the area around the machine cleaned, remove the microplate from the Microplate Reader and logged off the computer.
- Finally sign the “Control Notebook”.

5. Data storage and retrieval

- **All Your files must be saved to the location indicated to you:**
 1. Click on “**My computer**”, then on “**Local disk (C:)**”.
 2. Access the “**SHARING**” directory to enter your personal folder.In order to make the access to your personal folder easier you can create a shortcut of it on your desktop.
- Notice that files stored in other areas are subjected to possible deletion.
- **The use of a USB to retrieve your data is not recommended**, instead you can access to the computer using the local area network to do so:
 1. Use the following IP address on the Internet Explorer: \\10.6.46.54
 2. Access the directory “**SHARING**”.

3. Enter your personal folder, using your username and password.

6. General

- If you have any problems with the Microplate Reader, please report them to Core Facilities Unit at corefacilities@ibecbarcelona.eu.