

SHORT DESCRIPTION OF THE MULTIMODE MICROPLATE READER

Modernization of the infrastructure and instruments in the field of cross border services for environmental protection is an important objective of this project and procurement of state-of-the-art research instruments was one of the steps required to achieve this goal.

The Synergy H1 is an innovative hybrid multi-mode microplate reader by Biotek, with detection modes that include fluorescence intensity (FI), fluorescence polarization (FP), time resolved fluorescence (TRF), luminescence, and UV-visible absorbance.

The reader is computer-controlled using Gen5 software for all operations, including data reduction and analysis.

The Synergy H1 can perform reads using a filter cube or a monochromator. The filter based system can perform fluorescence and luminescence reads, while the monochromator-based system, which has both top and bottom probes, is used for absorbance, fluorescence, and luminescence.

The Synergy H1 accommodates standard 6-, 12-, 24-, 48-, 96-, and 384-well microplates, and for fluorescence, the measurements can be performed from the top and bottom with monochromators, and from the top with filters.

Another important feature of the multimode reader Synergy H1 is the top and bottom incubation system, from 4°C over ambient, to 45°C, a feature that is very important when monitoring live cell that must be kept at specific temperature conditions.

This instrument will be used by researchers in the project for performing toxicological, chemical and microbiological analysis required by the activities presented in the project.



Cooperation beyond borders.

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