MINI





Wmicrotracker® MINI features innovative technology that allows you to obtain real-time information about the behavior and viability of populations of small animals grown in liquid medium. The "Equipment + Software" system is optimized for quickly and easily quantifying the locomotor activity of small organisms in 96-well microplates. This system is a simplified and cost-effective version of the "WMicrotracker ONE".



Many biological assays are complex to perform, requiring great manipulation skills and analysis time. This makes the work tedious and limits experiments based on their level of difficulty. Therefore, at Phylumtech, our vision is to provide unique, agile, and real-time solutions that enable immediate, reliable, and reproducible results. Founded in 2009 as a joint venture between the public and private sectors, we combine the latest advances in science and research with cutting-edge technologies.

After years of experience, we have invested in the **development of accessible High Throughput** products. In this opportunity, we present the **Wmicrotracker® MINI**, a low-cost system based on non-invasive technology of infrared microbeams and photosensors. Developed with CONICET and protected by international patents, **MINI allows the quantification of locomotor activity of small organisms in a 96-well microplate format**. The detection system is compatible with small organisms such as C.elegans, mobile stage parasites, artemia salina, and small insects.



Based on an innovative system of 96 infrared microbeams, the system detects the small interferences generated by the organisms present in the sample. In this way, a pattern of activity is recorded, which will be processed by software specially designed for real-time data acquisition.

The digital analysis of signal changes (proportional to light intensity) allows us to detect the movement of the organism passing through the beam of light. A software calculates the number of activity events per time block.



The device can perform High Throughput assays in liquid medium in the following microplate formats:

96-well flat bottom [1 IR beam/well]96-well U-bottom [1 IR beam/well]8 to 32 Glass tubes for small insects (4-6 beams per tube)



Infrared locomotor tracking system (Worm Microtracker)



MINI

Equipment detection range



APLICATIONS

Toxicity-Microbiota-Pathogenesis-RNAi-Stress-Neurodegeneration



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Components included





• Automatic shutdown/sleep/hibernate mode must be disabled.

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