

Agilent Mito-rOCR: Streamlined Assessment of Mitochondrial Function in Live Cells

Product description

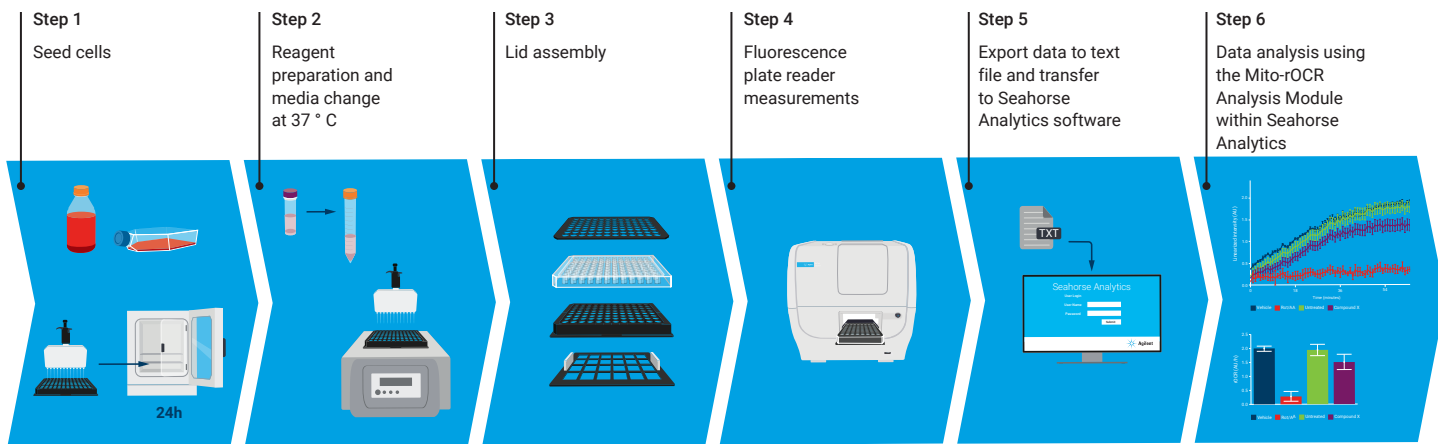
The Agilent Mito-rOCR Assay provides an effective solution for measuring mitochondrial respiration by determining relative oxygen consumption rate (rOCR). Designed for ease, this assay features an oil-free workflow and Mito-rOCR seal lids that create a sealed environment in each well, enabling reliable and rapid detection of oxygen consumption.



The assay is compatible with a broad range of Agilent BioTek multimode readers and imagers, making it a practical and cost-effective choice for your research needs.

Data analysis is conducted using the Mito-rOCR Analysis Module within Agilent Seahorse Analytics, a cloud-based platform that supports fast data import, signal linearization, slope calculation, and the generation of data tables and bar charts.

After the assay, cells within the imaging-grade Mito-rOCR microplate can be used for further analysis, allowing for multiplexed assessments of OCR alongside other cellular and mitochondrial functions.



Features

- **Ease of use:** Streamlined oil-free workflow with user-friendly Mito-rOCR seal lids, creating a semi-closed compartment in each well for reliable and rapid rOCR detection, ensuring successful results on your first try.
- **Broad compatibility:** Compatible with a wide range of Agilent BioTek multimode readers and imagers, including both monochromator- and filter-based time-resolved fluorescence readers.
- **Advanced data analytics:** Effortlessly perform data processing, signal linearization, and rate calculation with the Mito-rOCR Analysis Module within Seahorse Analytics, for quick and detailed results.
- **Rapid results:** Achieve results approximately five times faster than traditional oil-based assays for extracellular respiration, enhancing research efficiency.
- **Versatile cell handling:** Effective across a range of adherent cell types at lower densities, eliminating the need for overconfluent cells previously required for similar assays (Figure 1).
- **Multiplexing capability:** After the Mito-rOCR assay, use the cells for additional multiparametric assessments, such as imaging and plate reader-based assays. The included imaging-grade plate supports comprehensive data multiplexing, integrating OCR with other cellular and mitochondrial functions.

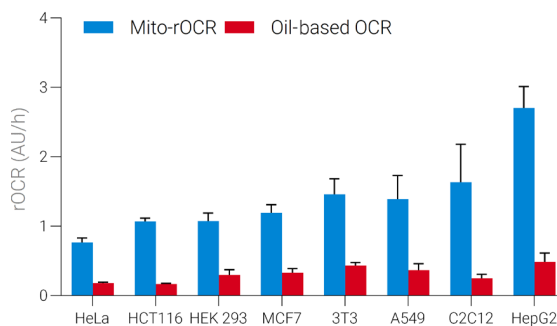


Figure 1. rOCR signals of varying cell types using oil-based assays versus the Agilent Mito-rOCR assay.

Ordering information

Product	Contents	Part Number
Mito-rOCR Assay Starter Kit	Mito-rOCR Magnetic Holder Mito-rOCR Analysis Module Mito-rOCR Assay Kit	MO-400-4
Mito-rOCR Assay Kit	Mito-rOCR lids/plates for four assays Mito-rOCR reagents for four assays	MO-300-4
Mito-rOCR Magnetic Holder	Metal top and magnetic base plate	MO-100
Mito-rOCR Microplate Pack	Mito-rOCR lids/plates for four assays	MO-200-4
Mito-rOCR Analysis Module	Software license key for three users	MO-500

www.agilent.com/lifesciences/mito-rocr

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