

## Press Release

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# Mitochondrial Measurements Living Cells, Label-Free and Microplate Format Introducing the Seahorse Bioscience XF24 Extracellular Flux Analyzer

The XF24 Extracellular Flux Analyzer from Seahorse Bioscience is a better way to profile bioenergetics. By measuring both mitochondrial respiration and glycolysis simultaneously and in real-time, the XF24 provides physiologically relevant insight into the effect of drug treatments, gene transfections and toxins on cell metabolism.

Key features of the XF24 Flux Analyzer:

- Simultaneously measure O<sub>2</sub> consumption, extracellular acidification and CO<sub>2</sub> production
- Measurements of a single population of cells over a period of minutes, hours or even days
- Non-invasive assay in microplate format with reuse of cells

Mitochondrial integrity displays a key component of cell physiology. Under typical in vitro cell culture conditions, oxygen consumption rate (OCR) is a direct measurement of mitochondrial respiration and extracellular acidification rate (ECAR) is dominated by lactic acid production formed during glycolytic energy metabolism. Measuring both parameters simultaneously enables a more comprehensive assessment of cellular energetics and provides a valuable monitor of mitochondrial functionality. In addition, the optional detection of CO<sub>2</sub> production monitors the pentose phosphate pathway. Recognition of the value is underscored by the growing number of investigators using the Seahorse XF24 to achieve these metabolic measurement.

Please contact us in order to learn how you can benefit using the XF24 Extracellular Flux Analyzer.

