

Drive your drug discovery with an enhanced live-cell metabolic assay platform



Detect rapid, real-time changes in cellular bioenergetics with a platform optimised for pharma.

THE AGILENT Seahorse XF Pro platform features pharma-oriented workflow solutions with advanced experimental design and analysis tools, enabling you to detect rapid, real-time changes in cellular bioenergetics.

How is this done? Seahorse XF technology measures the oxygen consumption (OCR) and extracellular acidification rate (ECAR) of live cells in a 96-well format. OCR and ECAR are key indicators of mitochondrial respiration and glycolysis as well as adenosine triphosphate (ATP) product rate. Together, these measurements provide a systems-level view of cellular metabolic function in cultured cells and *ex vivo* samples.

With this newly optimised platform, Agilent Seahorse XF data interpretation is now even easier for characterising *in vitro* disease models, identifying novel drug targets, validating target effect on cellular function, developing functional (mechanistic) screening assays, determining drug safety and measuring parameters linked to antitumour potential of T-cell therapies.

Agilent Seahorse XF Pro analyser and controller software offers improved sensitivity and precision for OCR, improved usability and temperature performance, verified optimal OCR and PER measurement ranges and is automation-ready.

Agilent Seahorse Wave Pro software imports assay conditions and plate map layouts and reduces data complexity with automated and

interactive data quality analysis report.

Meanwhile, Agilent Seahorse Analytics offers new data visualisations and customisable analysis templates, facilitating decision making and compiling and summarising result data from multiple XF assays.

To complete this end-to-end workflow, Agilent is offering new Seahorse XF consumables inclusive of the XF Pro M fluxpak and plates which are designed to limit edge effects for larger screens, the 96-well hydrobooster for improved sensor calibration and verified assay kits – the Seahorse XF Mito Tox Assay kit and Seahorse XF T Cell Metabolic Profiling kit.

What sets the Seahorse XF Pro apart?

- Better precision at low OCR: confidently interrogate more immune cell types, as well as cell types that are bioenergetically compromised
- Verified instrument performance: maintain consistent XF data from plate to plate with verified CV percentage and standard deviations for OCR/ECAR/PER rates
- Wave Pro data quality view: automatically flag erroneous data and more easily reject outliers
- Optimised temperature control: control edge effects when combined with the new Agilent Seahorse XF Pro M cell culture plate

- Automation enabled: software is designed to communicate with automation integration software
- Analytical instrument qualification (AIQ) service: ensure proper instrument performance through customer acceptance criteria and documentation.

Whether your drug discovery strategy is small molecule, biologic or cell therapy, Agilent Seahorse XF assays help you elucidate the role of energy metabolism in cellular processes. 📧



Trusted Answers

Find a local Agilent customer center:

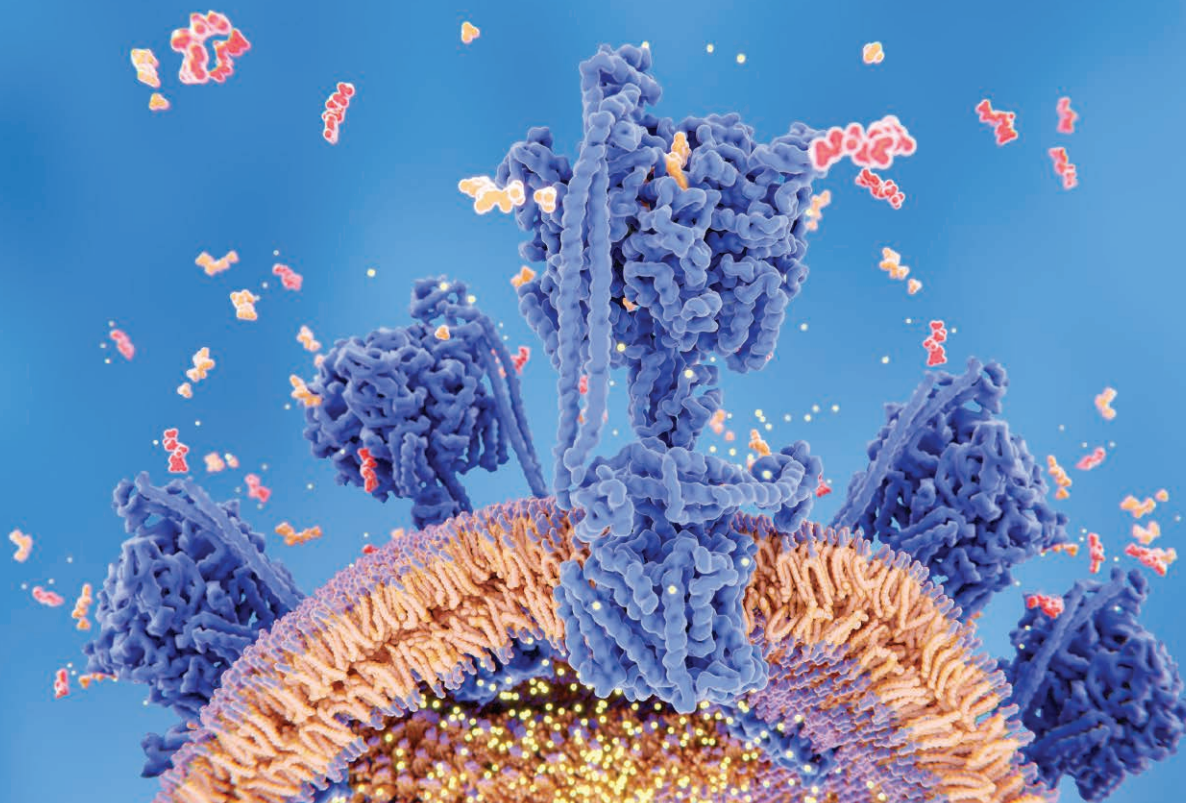
www.agilent.com/chem/contactus

US and Canada
1-800-227-9770;
select option 3, then 8
cellanalysis.support@agilent.com

Europe
UK: 0800 096 7632
Germany: 0800 180 66 78
Netherlands: 0800 022 7243
Other EU: +45 3 136 9878
cellanalysis.support@agilent.com

For Research Use Only. Not for use in diagnostic procedures.
RA44511.6029282407

Transforming Bioenergetic Measurements—Again



Agilent Seahorse XF Pro for pharma, biopharma, and beyond

The Agilent Seahorse XF analyzer revolutionized the measurement of bioenergetics in live cells. Now, we've built upon that success with the Seahorse XF Pro. It features pharma-oriented workflow solutions with advanced experimental design and analysis tools, letting you optimize your workflow from start to finish.

Developed for pharma—and better for everyone—the Seahorse XF Pro platform lets you detect rapid, real-time changes in cellular bioenergetics. And it simplifies data interpretation for characterizing *in vitro* disease models, identifying novel drug targets, validating target effect on cellular function, measuring the antitumor potential of T cell therapies, and more.

Take a closer look at the Agilent Seahorse XF Pro.

www.agilent.com/chem/xfpro



For Research Use Only. Not for use in diagnostic procedures.

© Agilent Technologies, Inc. 2022

 **Agilent**
Trusted Answers