

High Sensitivity, Enhanced Data Quality, Easier Workflow, Versatile Analytics

Agilent Seahorse XF HS Mini Analyzer with XF HS Miniplate



Discover the next advancement in Seahorse XF technology

The Agilent Seahorse XF platform is a label-free, integrated platform that seamlessly combines instrument, sensor cartridge, assay kits and software to deliver quantitative cell metabolic data with real-time compound exposure kinetics.

The Seahorse XF HS Mini analyzer is the latest addition to the suite with improved precision and Windows 10 compliance. This entry level analyzer is easy to set up and operate, and is ideal for experiments with fewer samples. It is also compatible with our highest sensitivity miniplate which enables the use of 3x fewer cells per well, ideal for when sample is limited.

- Better reliability and robustness when measuring at low OCR rates (<40 pmol/min)
- Compatible with the XF HS Miniplate, a new consumable that uses 3x fewer cells per well
- Measure low respiratory cell types more confidently
- Ideal for limited, primary, isolated, rare, or sorted cells
- Optimized workflow for suspension and immune cell types



High sensitivity - 3x fewer cells per well

Improved data quality

Streamlined analytics-
Mac & PC enabled

Compatible with all XFp
FluxPaks, plates, and kits

Consistent suspension
cell workflow - PDL
coated microplates

IT compliant and networking
ready - powered by Windows 10

Improved data quality and reliability at low oxygen consumption rates

System improvements drive the ability to generate up to 50% improved standard deviations (Fig. 1) allowing users to have more confidence when measuring cell types that have low respiratory rates and to resolve smaller rate differences to draw more robust conclusions.

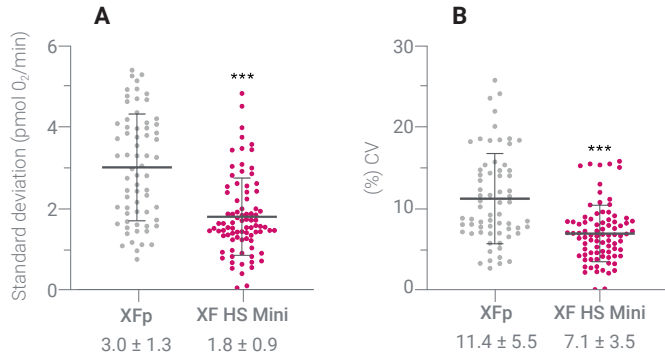


Fig 1. Improved standard deviations (A) and well-to-well variability (B) on the XF HS Mini Analyzer as show with measurements <40pmol/min (n=80) when comparing both 8 well platforms.

Achieve robust assay performance with 1/3 the cells

The XF HS Miniplate incorporates a new design which focuses cells in the center of each well. Gain new metabolic insights with confidence using less of your precious cells than ever before.

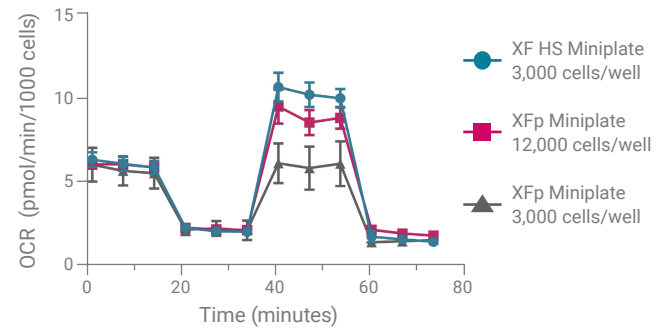
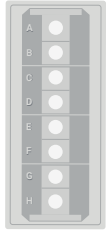



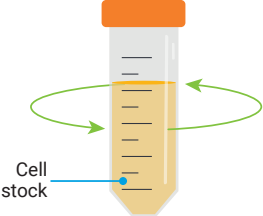
Figure 2: C2C12 cells were plated at 3,000 cells per well on the XF HS Miniplate and both 12,000 and 3,000 cells per well on standard XFp miniplates and the XF Cell Mito Stress Test Kit was performed using the Seahorse XF HS Mini Analyzer. Results shown are normalized to cell count and data represents mean +/- SD of n=3 biological replicates per condition.

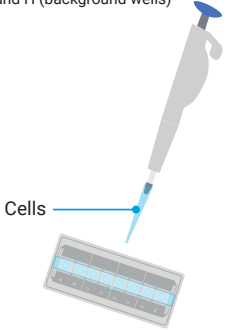
Consistent XF data from an improved workflow for suspension cells

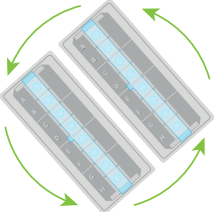
- 1** Obtain a PDL-coated 8-well miniplate
Note: for best assay performance, Agilent recommends warming the plate overnight in a non-Co2 incubator at 37°C.

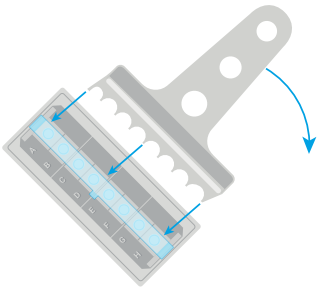

- 2** Warm and prepare XF Assay Medium with required supplements

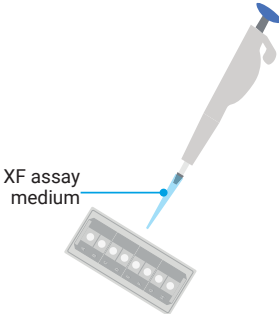

- 3** Harvest Cells from flask or other source. Spin in centrifuge and resuspend in XF Assay Medium at desired cell concentration per 30 µL



- 4** Dispense 30 µL Cell Stock into wells B – G. Add 30 µL Assay medium (no cells) to wells A and H (background wells)


- 5** With an additional plate for rotor balance and 2 XFp Cell Culture Miniplate Carrier Trays, centrifuge plate(s) to immobilize cells
Tip: While plates are being centrifuged, prepare XFp Extracellular Flux Assay Cartridge and begin calibration


- 6** Use mask removal tool to carefully extract the silicone mask from the XF HS miniplate so cell monolayer is not disturbed


- 7** After immobilization, slowly and carefully add additional assay media to bring final volume to that recommended for your assay. Keep plate at 37°C until XF Analysis


- 8** The XF HS miniplate is now ready for the next step in the XF assay workflow



Unlock new discoveries with the Agilent Seahorse XF HS Mini Analyzer. Talk to your sales representative today and visit: www.agilent.com/chem/HSMINI

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This information is subject to change without notice.

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