

# How to Use the Hydro Booster for Improved Hydration and Data Quality on the Agilent Seahorse XF<sup>e</sup>24 Analyzer

## Basic Procedure

An important component of the Agilent Seahorse XF Assay platform is the sensor cartridge. Each probe tip of the sensor cartridge is spotted with a solid-state sensor material that detects changes in both pH and O<sub>2</sub> concentration over time to calculate rates. In order for the sensors to function correctly, they must be thoroughly hydrated.

The following instructions describe how to use the Hydro Booster to improve hydration and data quality.

**IMPORTANT NOTES:** This procedure must be performed 1 day prior to using the Sensor Cartridge for a XF Assay. The Hydro Booster must be removed prior to placing the Sensor Cartridge into the Agilent Seahorse XF<sup>e</sup>24 Analyzer. Failure to do so may result in damage to both the Sensor Cartridge and the XF<sup>e</sup>24 Analyzer.



XF<sup>e</sup>24 Analyzer



## Materials

Agilent Seahorse XF<sup>e</sup>24 FluxPak containing:

Agilent Seahorse XF<sup>e</sup>24 Extracellular Flux Assay Kit:

1. Cartridge Lid
2. Sensor Cartridge
3. Hydro Booster
4. Utility Plate
5. Agilent Seahorse XF<sup>e</sup>24 Cell Culture Microplates
6. Agilent Seahorse XF Calibrant (500 mL)



Also required, but not included:

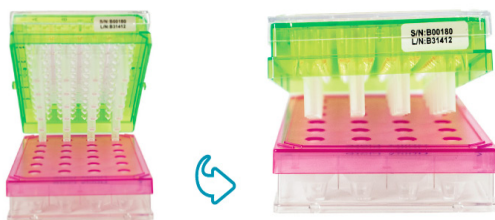
1. 1 mL pipettor and tips
2. Non-CO<sub>2</sub> incubator at 37°C

## Procedure

1. Open the Agilent Seahorse XF<sup>e</sup>24 Flux Assay Kit and remove the contents.
2. Place the Sensor Cartridge next to the Utility Plate.
3. Fill each well of the Utility Plate with 1 mL of XF Calibrant.



4. Place the Hydro Booster on top of the Utility Plate.
5. Lower the Sensor Cartridge through the openings on the Hydro Booster plate, into the Utility Plate submerging the sensors in XF Calibrant.



6. Verify the XF Calibrant level is high enough to keep the sensors submerged.
7. Place in a non-CO<sub>2</sub> 37°C incubator overnight. To prevent evaporation of the XF Calibrant, the incubator should be humidified.
8. The next day, remove the Hydro Booster from between the Sensor Cartridge and Utility Plate, also remove the Cartridge lid.
9. Load compounds into the ports as required. Place into the XF<sup>e</sup>24 Analyzer for calibration.



WARNING:  
Remember to remove the Hydro  
Booster and Cartridge Lid prior to  
placing the Sensor Cartridge and  
Utility Plate in the XF<sup>e</sup>24 Analyzer.

Learn more  
[www.agilent.com/en-us/promotions/seahorse-xf-technology](http://www.agilent.com/en-us/promotions/seahorse-xf-technology)

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