

# XF24 Islet Capture Microplates & FluxPaks

## Novel 24-well microplate enables real-time measurement of islet mitochondrial function in the XF24 Extracellular Flux Analyzer

### Assay real-time bioenergetics of islets cells

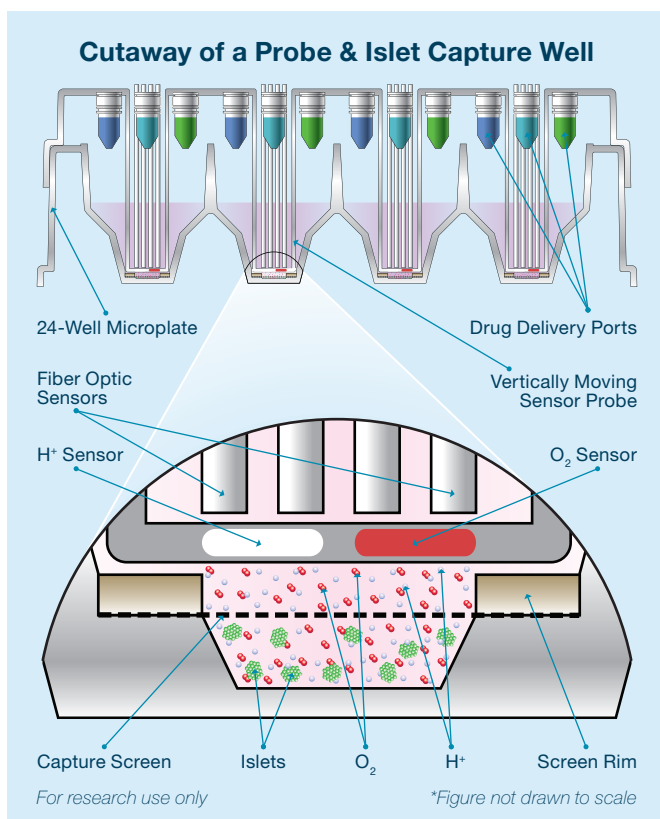
The XF24 Islet Capture Microplate works with the XF24 Analyzer to measure the two major energy pathways of cells—mitochondrial respiration and glycolysis.

### Innovative design for break-through data

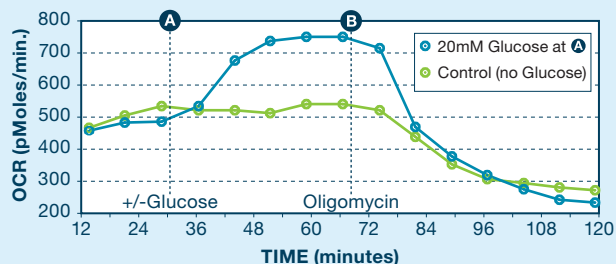
Designed specifically to assay the cellular metabolism of pancreatic islets with an XF24 Analyzer, the Islet Capture Microplate keeps islets an optimal distance from the XF sensor while permitting the diffusion of compounds and allowing for the free exchange of nutrients and gasses to keep cells healthy throughout the assay.

### Unsurpassed convenience and throughput

The XF24 Islet Capture Microplate replaces time-consuming coating protocols and cumbersome perfusion systems with a convenient 24-well microplate. Simply add 50-70 islets per well, insert the capture screen, and begin your experiment. Accurately measuring oxygen consumption in functioning islets has never been so easy!



### Response of Human Pancreatic Islets to Glucose



Glucose injection increases the oxygen consumption rate [OCR] of pancreatic islets over the basal respiration rate, which has been shown to correlate to insulin secretion. Response to glucose is blunted in diabetic islets. Sequential addition of the ATP synthase inhibitor Oligomycin shows the mitochondrial coupling efficiency or ATP turnover of the islets.

Data Courtesy of Orian Shirihai, MD PhD, B.U. Medical Center

### View the Seahorse On-Demand Webinar

“How to Measure Mitochondrial Function in Whole Islets” by Orian Shirihai, MD PhD, Boston University Medical Center.

### Ordering Information

**Product:** XF24 Islet Fluxpak  
**Part Number:** 101174-100  
**Price:** \$499  
**Contents:** 6 XF24 Assay Kits, 6 XF24 Islet Capture Microplates with capture screens, and XF calibrant solution.

**Product:** XF24 Islet Capture Microplates  
**Part Number:** 101122-100  
**Price:** \$199  
**Contents:** 6 XF24 Islet Capture Microplates with lids and Islet Capture Screens

**Product:** Capture Screen Insert Tool  
**Part Number:** 101135-100  
**Price:** \$265  
**Contents:** 1 reusable, sterilizable, insert device



XF24 Islet Capture Microplates



XF24 Extracellular Flux Analyzer

Seahorse Bioscience