

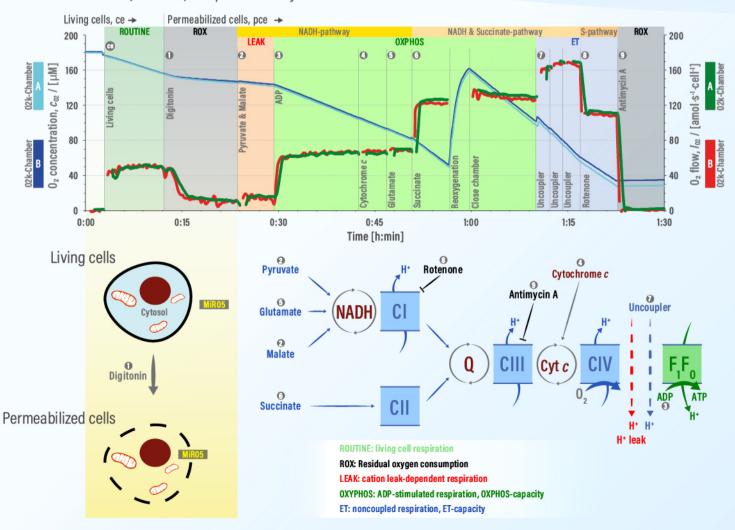


Permeabilized cells

· Living cells

Oroboros O2k-SUIT protocol

2 chambers (A and B) - reproducibility



Oroboros O2k-Packages	OP FILMS	Series Soliones, Oct. Persons, Control of Carlos Solio	Power Meter	Power Policines, O. P. West Policy Company of the C
02k-Main Unit	~	~	~	~
TIP2k - Titration-Injection microPump	~		~	
02k-Fluo Smart-Module	~		~	
Small Chamber 02k-sV-Module	~	✓	/	~
DL-Protocols	~	V	~	/
O2k-Assembly Kit	~	~	/	~
OroboPOS polarographic oxygen sensors	3	2	2	2
OroboPOS-Service Box	~	✓	/	~
02k-Chamber	2	2	2	2
DatLab software with SUITbrowser and SUIT protocols	~	✓	/	✓
ISS-Integrated Suction System	~	V		
O2k-Titration Set with Syringe Racks and Tube Racks	~	✓		
MiRO5-Kit & MitoKit-CII	~	V	~	~
Expert support	~	V	~	~
Free registration for O2k-Workshop	~	✓	~	~





Oroboros O2k-Modules

02k-Fluo Optical sensors and filters

Fluorescence module for measurement of H₂O₂, ATP production, mt-membrane potential, Ca²⁺

TIP2k Titration-Injection microPump

Programable and automated titrations for complex protocols

02k-sV Small operation volume

High-resolution respirometry with reduced amounts of biological sample

02k-TPP+ Potentiometric ion-selective electrodes

Measurement of mitochondrial membrane potential

02k-pH pH electrodes pH measurement

02k-NO NO-sensor compatibility pack

Amperometric O2k-MultiSensor applications: NO, H₂S, H₂O₂

Sole-source instrument

Respiration chambers with minimun oxygen O₂ diffusion

- High-resolution of oxygen flux: ±1 pmol O₂·s⁻¹·mL⁻¹ from normoxia to anoxia
- Oxygen High-resolution of oxygen concentration: 5 nM
 - Long-term stability and linearity of the polarographic oxygen sensor (OroboPOS)
 - Barometric pressure transducer for accurate air calibration at any altitude

SUIT protocols

Standardized substrate-uncoupler-inhibitor-titration DL-Protocols

- Real-time monitoring of respiratory rates and states
- Multiple titrations within a single assay for in-depth analysis of mitochondrial fitness

MultiSensor

Additional parameters recorded real-time in combination with oxygen in the same chamber

 Automatic and documented calibration routines, instrumental background tests, and mitochondrial assays supported by DL-Protocols

Temperature

4 to 47 °C | stability ±0.002 °C

Dimensions: L 45 cm, W 31 cm, H 23 cm | Weight: 14 kg | Power: 100 – 240 V, 47 – 63 Hz, 120 W Chamber: Duran glass | Volume: 2 mL or 0.5 mL | Thermostat: Peltier temperature control Specialized DatLab Software for use on a Windows PC connected to the 02k via a USB port





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Products