

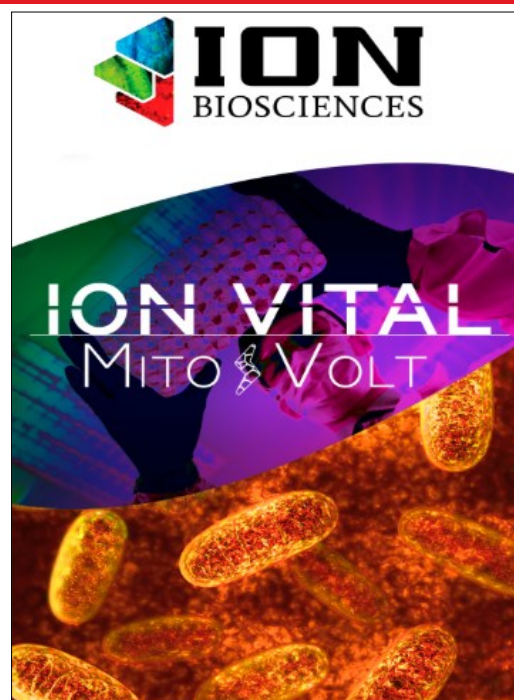
ION VITAL - MitoVolt Kit

Catalog # 5100

Mitochondrial membrane potential assay kit that uses JC-10, a dye that accumulates in healthy, polarized mitochondria where it forms J-aggregates and emits an orange fluorescence. Mitochondrial depolarization, a key marker of cellular apoptosis, results in loss of JC-10 accumulation and reversal to a monomeric form that emits green fluorescence. This reversible behavior allows for ratiometric analysis of mitochondrial membrane potential, which can be monitored in real time or as a static endpoint.

Available in these sizes:

5100	MitoVolt Kit - 5 plates
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Product Details	
Intended Use	Ratiometric analysis of mitochondrial membrane potential
Compatible Instruments	Fluorescence Microscope, Plate Reader, Flow Cytometer
Product Size	Enough reagents for 5 x 96-well plate assays or 500 flow cytometry assays
Storage Temperature	Ships frozen; Multiple Storage Conditions: -20°C and 4°C
Packaging	Components placed in bags marked with storage temperature, all packed in a mylar pouch

Kit Contents	ION VITAL - MitoVolt Kit Cat# 5100	
Component	Size	Qty
100X JC-10 in DMSO (~3.5 mM)	250 µL Vial	1
Dye-Loading Buffer	25 mL Bottle	1
Masking Solution	25 mL Bottle	1

All supplied components are tested to meet individual product specifications, including validation in a cell assay similar to that described in the Plate Reader Assay in the Kit Protocol, available on the product webpage. Please review the Kit Protocol for additional information and suitability of the kit with your application. JC-10 in DMSO is available for individual sale on our website.