

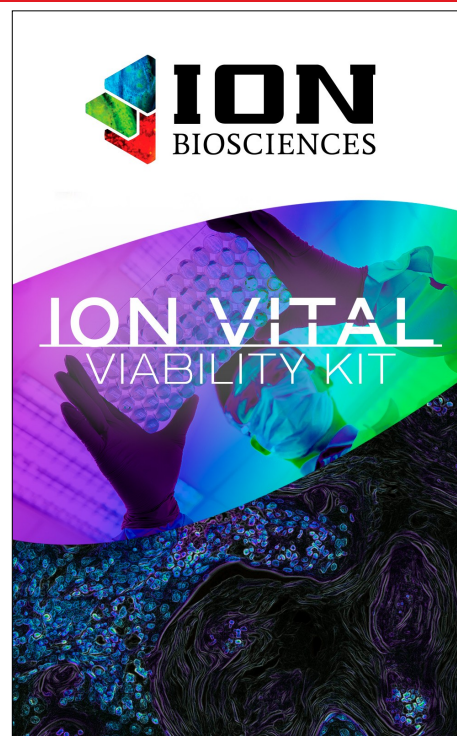
## ION VITAL - Viability Kit

Catalog # 5000

A two-color, fluorescence based assay which can be used to discriminate between and quantify live and dead cells with eukaryotic cell suspensions or adherent cultures, 3D cultures, organoids, and some non-fixed tissues. Cannot be used for yeast or bacteria. The kit uses Calcein AM, which can pass through the membrane into live cells where it is converted into a green-fluorescent Calcein by esterases, and Ethidium Homodimer-I (EthD-I) which is a membrane impermeable nucleic acid stain, which can pass through damaged or compromised plasma membranes, a hallmark of dead or dying cells, and bind with DNA to produce a bright red fluorescence.

*Available in these sizes:*

5000	Viability Kit - 15 plates
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Product Details	
Intended Use	Determination and quantification of live and dead cells
Compatible Instruments	Fluorescence Microscope, Plate Reader, Flow Cytometer
Product Size	Enough reagents for 15 x 96-well plate assays or 1500 flow cytometry assays
Storage Temperature	Ships frozen; Storage Conditions: -20°C
Packaging	Components placed in bags marked with storage temperature, all packed in a mylar pouch

Kit Contents	ION VITAL - Viability Kit Cat# 5000	
Component	Size	Qty
Ethidium Homodimer-I 2 mM in DMSO/Water	300 µL Vial	1
Calcein AM 4 mM in DMSO	100 µL Vial	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. Dye indicator solutions are available for individual sale on our website.