BactoView™ Viability Kits

A two-color viability staining kit optimized specifically for gram-positive bacteria strains. Offers a simple 30-minute staining protocol, no wash required.

Product Description

BactoView™ Viability Kits are optimized specifically for viability staining of gram-positive bacteria. The kits include Biotium's novel BactoView™ Stains for two-color staining of live and dead cells. BactoView™ Dead Stains are novel membrane-impermeant DNA binding dyes that selectively stain dead bacteria with compromised cell membranes. BactoView™ Viability Green Counterstain labels both live and dead bacteria with green fluorescence and is formulated for two-color staining with BactoView™ Dead.

Note: As of 6/16/2025, the formulation of kit components BactoView™ Dead 570/585 (Cat. No. 40109) and BactoView™ Dead 655/670 (Cat. No. 40111) was updated from 500X in water to 1000X in DMSO.

Robust Viability Assessment for Gram-Positive Bacteria

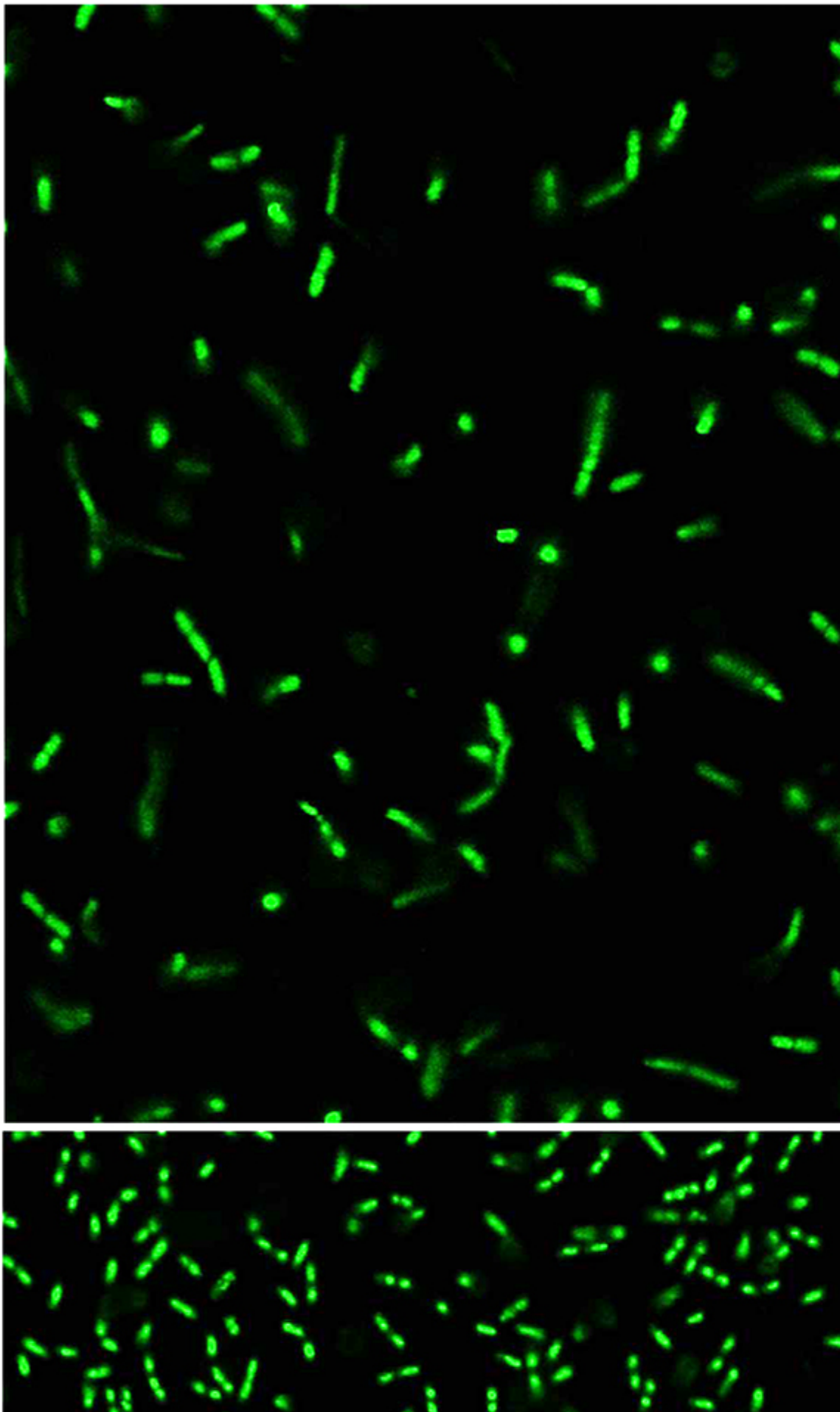
BactoView™ Viability Kits are optimizes specifically for live/dead staining of gram-positive strains. The kits include a highly selective BactoView™ Dead Stain for staining dead cells, and a BactoView™ Viability Green Counterstain that labels both live and dead bacteria. The kits are available with your choice of dye combination for green/visible red or green/far-red fluorescence detection. The stains are fluorogenic for no-wash staining and can be used to stain cells in culture medium or buffer.

Traditional vital nucleic acid dyes like propidium iodide or ethidium homodimer are efficiently excluded from live gram-negative bacteria, which have an outer membrane protecting the cell wall. But these dyes often are taken up by live gram-positive bacteria that lack an outer membrane, resulting in high background in live cells and poor live/dead discrimination. BactoView™ Dead Stains have novel chemical structures that are efficiently excluded from both gram-positive and gram-negative strains, for highly selective live/dead discrimination. See our full selection of BactoView™ Dead Stains in colors ranging from green to near-infrared fluorescence in the table below.

Note: While the BactoView™ Viability Kits can be used with gram-negative strains or mixed cultures of gram-positive and gram-negative bacteria, our Bacterial Viability and Gram Stain Kit will provide brighter staining of live gram-negative cells than the BactoView Kits.

BactoView™ Viability Green Cou

Untreated
B. subtilis



Product attributes

Apoptosis/viability marker	Dead cell stain, All cell stain
For live or fixed cells	For live/intact cells
Detection method/readout	Fluorescence microscopy, Flow cytometry
Assay type/options	Endpoint assay
Colors	Green, Red, Far-red
Storage Conditions	Store at -10 to -35 °C, Protect from light

BactoView™ Dead Stains & Viability Kits

Product Name	Ex/Em (nm)	Detection Channel	Size (1000X in DMSO)	Catalog No.
BactoView™ Dead 500/515	497/515	FITC	20 uL	40107-T
100 uL				40107
BactoView™ Dead 560/570	559/570	Rhodamine, PI, PE	20 uL	40108-T
100 uL				40108
BactoView™ Dead 570/585	572/583	Rhodamine, PI, PE	20 uL	40109-T
100 uL				40109
BactoView™ Dead 600/615	603/613	Texas Red® or PE-Texas Red®	20 uL	40110-T
100 uL				40110
BactoView™ Dead 655/670	653/671	Cy®5, APC	20 uL	40111-T
100 uL				40111
BactoView™ Dead 690/710	683/707	Cy®5.5	20 uL	40112-T
100 uL				40112
BactoView™ Dead 760/780	759/780	Cy®7, APC-Cy®7	20 uL	40113-T
100 uL				40113
BactoView™ Viability Kit (Green/Red)	Green (498/522)/Red (572/583)	FITC (Green)/Rhodamine, PI, PE (Red)	1 kit	32019
BactoView™ Viability Kit (Green/Far-Red)	Green (498/522)/Far-Red (653/671)	FITC (Green)/Cy®5, APC (Far-Red)	1 kit	32020

Texas Red is a registered trademark of Thermo Fisher Scientific; Cy Dye is a registered trademark of Cytiva.
We also offer BactoView™ Live stains with green or red fluorescence. Note that BactoView™ Stains cannot be used to distinguish bacteria from eukaryotic cells, because they will stain other cell types as well. For bright and optimized labeling of bacterial endospores, see our BactoSpore™ Bacterial Stains. For staining mammalian cells, see our NucSpot® Nuclear Stains for live/dead discrimination or nuclear counterstaining of fixed mammalian cells. For live nuclear staining of mammalian cells, see our NucSpot® Live Stains. Also, view our Cellular Stains Table for more information on how our dyes stain various organisms.