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# Viability/Cytotoxicity Assay Kit for Bacteria Live & Dead Cells


This kit provides two-color fluorescence staining of both live bacteria (green) and dead bacteria (red) using two DNA dyes, DMAO and EthD-III.

### Product attributes

| | |
|---|---|
| **Apoptosis/viability marker** | Live/dead assay |
| **For live or fixed cells** | For live/intact cells |
| **Detection method/readout** | Fluorescence microscopy |
| **Assay type/options** | Endpoint assay, Homogeneous assay, No-wash staining, Real-time imaging |
| **Colors** | Green/Red |
| **Storage Conditions** | Store at 2 to 8 °C, Protect from light |

## Product Description

This kit provides two-color fluorescence staining of both live bacteria (green) and dead bacteria (red) using two DNA probes, DMAO and EthD-III.

DMAO is a green-fluorescent nucleic acid dye which stains both live and dead bacteria. Ethidium Homodimer III (EthD-III) is a red-fluorescent nucleic acid dye that selectively stains dead bacteria with damaged cell membranes. When stained with a mixture of DMAO and EthD-III, bacteria with intact cell membranes show green fluorescence, whereas bacteria with damaged cell membranes show red fluorescence. The kit is suitable for use with fluorescence microscopes and flow cytometers. The assay principles are general and applicable to most bacteria types. For 100 flow cytometry assays or 1000 microscopy assays.

Biotium also offers BactoView™ Dead Stains and BactoView™ Viability Kits for highly-selective staining of dead bacteria, available in a selection of 7 colors from green to near-IR. BactoView™ Dead Stains also can be combined with fluorescent Gram stains like our CF® Dye WGA Conjugates.

BactoView™ Live Green and BactoView™ Live Red are designed for staining both live and dead bacteria. 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.

See our full selection of Microbiology Stains & Kits.