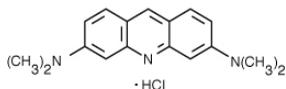


## Acridine Orange Stain

F23002



## Storage

4 °C in the dark

## Product Description

Molecular formula	$\text{C}_{17}\text{H}_{20}\text{ClN}_3$
Molecular weight	301.82 g/mol
Appearance	Clear liquid
Cell permeability	Membrane permeant
Excitation/emission	500/526 nm (when bound to DNA) 460/650 nm (when bound to ssDNA or RNA)

Acridine Orange Stain is a cell-permeant vital dye that binds to nucleic acids. Binding to dsDNA causes acridine orange to fluoresce green and binding to ssDNA or RNA causes it to fluoresce red.

Acridine Orange Stain can be used with Propidium Iodide Stain (F23003) to assess cell viability with the automated fluorescence cell counters of the LUNA™ family. Viable nucleated cells will fluoresce green and nonviable nucleated cells will fluoresce red. Due to Förster resonance energy transfer (FRET), the propidium iodide signal absorbs the acridine orange signal in nonviable cells, ensuring no double positive results.

## Directions for Use

1. Mix:
  - 1  $\mu\text{L}$  Acridine Orange Stain
  - 1  $\mu\text{L}$  Propidium Iodide Stain
  - 18  $\mu\text{L}$  cell sample
2. Count the sample with a compatible LUNA™.

## Disclaimer

This product is for research use only. Please consult the material safety data sheet for information regarding hazards and safe handling practices.

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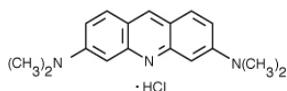
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LBSM-RD-PI-AO-001 Rev.2

## Acridine Orange Stain

F23002



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4 °C in the dark

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### Directions for Use

1. Mix:
  - 1 µL Acridine Orange Stain
  - 1 µL Propidium Iodide Stain
  - 18 µL cell sample
2. Count the sample with a compatible LUNA™.

### Disclaimer

This product is for research use only. Please consult the material safety data sheet for information regarding hazards and safe handling practices.

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