

AdvanStain-Cell Viability Staining Solutions

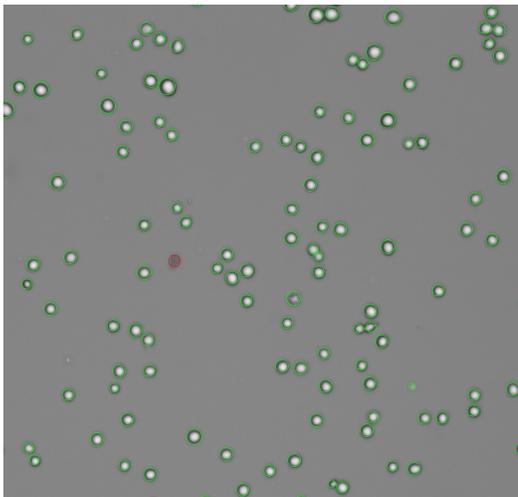
Fast and reliable dyes for accurate cell counting and viability assessment

AdvanStain-AO/PI and **Trypan Blue Cell Viability Staining Solutions** are provided as ready-to-use formulations, each provided as a 2X concentrate. Just add an equal volume of cell sample to the 2X dye solution and count. Each cell viability staining solution is formulated with a precise dye concentration, ensuring minimal lot-to-lot variation for consistent and reproducible results. Formulated with high-purity dyes, our stains ensure minimal background noise and deliver precise, reliable cell viability counts every time.



Advantages

- **CONVENIENT** – just add an equal volume of your cell sample (supplied as 2X)
- **CONSISTENT** – precise dye concentrations ensure minimal lot-to-lot variation
- **PRECISION** – formulated with highly purified dyes for reduced background noise and accurate cell viability counts



AdvanStain-Trypan Blue Cell Viability Staining Solution

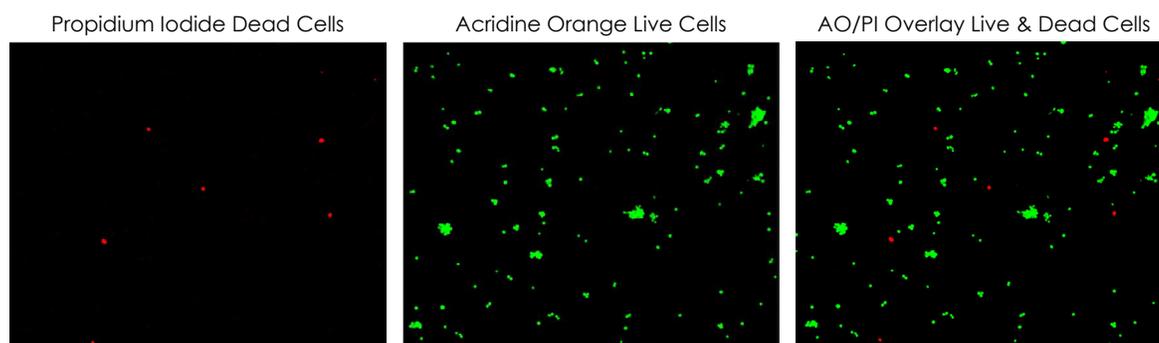
Trypan Blue is a commonly used dye to assess cell viability. Viable cells have intact cell membranes and are not stained, remaining colorless. Non-viable cells are stained blue. Trypan Blue Stain is used with cell counters equipped for brightfield cell counting.

AdvanStain-Cell Viability Staining Solutions

Fast and reliable dyes for accurate cell counting and viability assessment

AdvanStain-AO/PI Cell Viability Staining Solution

Acridine Orange (AO) and Propidium Iodide (PI) are nucleic acid binding dyes that can be used to measure the viability of nucleated cells. The AO/PI Stain can be used to assess cell viability with fluorescent cell counters equipped with Ex/Em: 480(30)/535(40)nm (Acridine Orange) and Ex/Em: 540(25)/620(60)nm (Propidium Iodide). In addition to measuring the viability of nucleated cells in cell culture, this stain may also be used for complex samples such as PBMC's, whole blood, primary cells, tumor digests as well as many others.



Acridine Orange permeates viable cells and binds to nucleic acids, generating a green fluorescent signal when bound. Propidium Iodide only enters cells with compromised membranes that are therefore dying or dead. Once bound to nucleic acids, its fluorescence increases over 20-fold and causes the cell to fluoresce red. Due to Förster resonance energy transfer (FRET), the Propidium Iodide signal absorbs the Acridine Orange signal in non-viable cells, ensuring that the cells are not double positive. Therefore, when cells are stained with both AO and PI, live nucleated cells only fluoresce green and dead nucleated cells only fluoresce red.

Ordering Information

Catalog Number	Product	Size
R-03190-D10	AdvanStain-Trypan Blue Cell Viability Staining Solution	100mL
R-03191-B50	AdvanStain-AO/PI Cell Viability Staining Solution	5mL



Related Products

K-15065-005	AdvanCell™ in-cell Western Kit, Rb700/Ms800	for 5 plates
K-15066-005	AdvanCell™ in-cell Western Kit, Rb800/Ms700	for 5 plates
L-07096-005	AdvanCell™ 96-well Tissue Culture Plates with Lids	5 each
R-03168-060	500X AdvanCell™ Total Cell Staining Solution	60µL

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Product information: www.advantsta.com/AdvanStain-Cell-Viability-Staining-Solutions

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