

Technical Data Sheet

Cell Viability Solution

Product Information

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| Material Number: | 555815 |
| Size: | 500 Tests |
| Vol. per Test: | 20 µl |
| Storage Buffer: | Aqueous buffered solution containing fetal bovine serum and ≤0.09% sodium azide. |

Description

BD Via-Probe™ is a convenient, ready-to-use solution of the nucleic acid dye, 7-Amino-actinomycin D (7-AAD) that can be used in place of propidium iodide (PI) for the exclusion of nonviable cells in flow cytometric assays. The advantage of 7-AAD over PI is the ability to be used in conjunction with phycoerythrin (PE)- and fluorescein (FITC)-labeled monoclonal antibodies in 2-color analysis, with minimal spectral overlap between the 7-AAD, PE and FITC fluorescence emissions. BD Via-Probe™ fluorescence is detected in the far red range of the spectrum (650 nm long-pass filter). This reagent is used as a viability probe for methods of dead cell exclusion, based on light scatter and uptake of 7-AAD as detected in FL3. This reagent does not require dilution, use 20 µL/test (1x10⁶ cells) and incubate for 10 minutes before analysis.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

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| Flow cytometry | Tested During Development |
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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10⁶ cells in a 100-µl experimental sample (a test).
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

O'Brien MC, Bolton WE. Comparison of cell viability probes compatible with fixation and permeabilization for combined surface and intracellular staining in flow cytometry. *Cytometry*. 1995; 19(3):243-255. (Methodology: Flow cytometry)

Schmid I, Krall WJ, Uittenbogaart CH, Braun J, Giorgi JV. Dead cell discrimination with 7-amino-actinomycin D in combination with dual color immunofluorescence in single laser flow cytometry. *Cytometry*. 1992; 13(2):204-208. (Methodology: Flow cytometry)

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