7-AAD

Product Information

Material Number: 559925
Size: 2 mL
Storage Buffer: Aqueous buffered solution containing fetal bovine serum and ≤0.09% sodium azide.

Description

7-Amino-Actinomycin D (7-AAD) is a convenient, ready-to-use nucleic acid dye 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 isothiocyanate (FITC)-labelled monoclonal antibodies in 2-color analysis, with minimal spectral overlap between 7-AAD, PE and FITC fluorescence emissions. The 7-AAD 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. Suggested quantity to use: 5 µl (0.25 µg)/test (1 x 10^6 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

| Flow cytometry | Routinely Tested |

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 x 10^6 cells in a 100-µl experimental sample (a test).
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References