

TECHNICAL DATA SHEET

7-AAD

Catalog Number: 13-6993

PRODUCT INFORMATION

Contents: 7-AAD

Excitation Laser Blue (488 nm), Green (532 nm), Yellow-Green (561 nm)

Emission (nm): 647

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, pH 7.2

Storage Conditions: 2-8°C protected from light

Use by: 12 months from date of receipt

DESCRIPTION

7-AAD (7-Aminoactinomycin D) is a nucleic acid dye that can be used to exclude nonviable cells from the analysis of flow cytometry data.

PREPARATION & STORAGE

7-AAD is provided in solution and should be stored at 2-8°C and protected from light. Do not freeze. CAUTION: 7-AAD is a potential carcinogen. Protect skin and eyes by wearing suitable protective clothing, gloves and eye/face protection.

APPLICATION NOTES

7-AAD is useful as a viability probe for exclusion of nonviable cells based on light scatter and fluorescence properties. It is recommended to use 5 µL (0.25 µg) of 7-AAD solution per sample and incubate for 5-10 minutes in the dark prior to data acquisition.

REFERENCES

Schmid I, Krall WJ, Uittenbogaart CH, Braun J, Giorgi JV. Cytometry. 1992; 13(2):204-208.

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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Propidium Iodide or 7-AAD Viability Staining Protocol

Propidium Iodide (PI) Cat. No. 13-6990

7-AAD Cat. No. 13-6993

Note: Propidium Iodide and 7-AAD are not compatible with intracellular staining protocols that require fixation and permeabilization. For these applications we recommend use of Tonbo Biosciences Ghost Dyes.

Caution: Propidium Iodide and 7-AAD are potential carcinogens. Protect skin and eyes by wearing suitable protective clothing, gloves and eye/face protection.

Other Materials Required

- Flow Cytometry Staining Buffer (Stain Buffer) (1X PBS with 2% FBS, 0.09% Na-Azide)

Experimental Procedure

1. Stain cell surface antigen(s).
2. Wash cells in Stain Buffer. Centrifuge at 300-400 x g for 5 minutes at room temperature and discard supernatant.
3. Resuspend in appropriate volume of Stain Buffer for acquisition, typically 0.5-1 mL.
4. **For PI:** add 10 uL (0.5 ug) to each sample.
OR
5. **For 7-AAD:** add 5 uL (0.25 ug) to each sample.
6. Incubate samples for 5-10 minutes in the dark prior to data acquisition.
7. Do not wash the cells after addition of Propidium Iodide or 7-AAD.
8. Analyze cells as soon as possible after the incubation period as prolonged exposure to Propidium Iodide or 7-AAD can have adverse effects on cell viability.