

Fluorescent Stains

Polysciences has established itself as a premium producer of the highest quality fluorescent stains at competitive prices. Described below are our major products.

Hydroethidine™—A vital stain with intriguing properties

- Enters and stains living cells without cellular trauma.
- Double staining system—stains cytoplasm blue and chromatin red.
- Excellent cellular retention—remains incorporated in chromatin with virtually no leakage.
- Essentially non-toxic—shows no toxicity at levels useful for visualizing chromatin.
- Chromatin fluoresces red when excited by visible and/or UV light—excellent for flow cytometry applications.
- May also be useful to study certain dehydrogenative metabolic activities and to monitor hybrid cell formation.

Ordering Information:

Cat. #	Description	Size
17084	Hydroethidine™	50mg

DAPI—Detects nanometer quantities of DNA

- DAPI is a cationic fluorescent dye which specifically binds to adenine-thymine-rich DNA.
- Used for cytofluorometric determination of the DNA base content in human chromosomes.

Write for Data Sheet #315.

References:

1. Nature, **253**, 461 (1975)
2. Anal. Biochem., **92**, 497 (1979)
3. Stain Tech., **60**, 7 (1985)

Ordering Information:

Cat. #	Description	Size
09224	DAPI	10mg 50mg

Acridine Orange, Electro Pure™—RNA stain and DNA intercalating dye

- Highest purity available—See reference #1.
- A specific stain for RNA, used in a 2% solution containing 1% lanthanum acetate in 15% acetic acid.
- Emission Max (2ml/L acidified ETOH) >65,000.

References:

1. J. Histochem. Cytochem., **36** (12) 1489-93 (1988)
2. J. Histochem. Cytochem., **34** (2) 245 (1986)
3. J. Lab. Med., **15**, 180 (1984)

Ordering Information:

Cat. #	Description	Size
04539	Acridine Orange, Electro Pure™, C.I. 40065	500mg 5g

Filipin—Cholesterol Fluorochrome

- Polyene antibiotic fluorochrome for cholesterol determination.
- A mixture of 3 isomers produces arthritis in rabbits.
- Used as an antifungal agent.

References:

1. Acta Histochem. Suppl. Ed. **15**, 207 (1975)
2. J. Cell. Biol, **99**, 315 (1984)
3. J. Histochem. Cytochem., **33**, 1 (1985)

Ordering Information:

Cat. #	Description	Size
08707	Filipin	100mg

2,4-Bis[N,N'-Di(carboxymethyl)aminomethyl]fluorescein (DCAF)—For microdetermination of calcium

- Can detect calcium in millimicrogram quantities.
- Used with Tetracycline for 2 color fluorescent labeling of mineralizing tissues.

References:

1. Stain Tech., **41** (1) 57 (1966)
2. Anal. Chem., **31**, 456 (1959)

Ordering Information:

Cat. #	Description	Size
03321	2,4-Bis[N,N'-Di(carboxymethyl)aminomethyl]fluorescein (DCAF)	1g

Naphthalene-2,3-decarboxaldehyde, Electro Pure™—long wavelength detection of primary amines

- Highly purified, TLC single spot, mp 132-134°.

References:

1. Anal. Biochem., **139**, 432 (1984)
2. Anal. Chem., **59**, 411 (1987)
3. Anal. Biochem., **180**, 279 (1989)

Ordering Information:

Cat. #	Description	Size
21486	Naphthalene-2,3-decarboxaldehyde, Electro Pure™	100mg

Caution: The full chemical, physical, and Toxicological properties of the chemicals mentioned herein are not known. Avoid contact with skin, eyes, or respiratory system. Consult MSDS before use. Keep in tightly closed container.

To Order:

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In The U.S. FAX: 1-800-343-3291 • 215-343-0214

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In Germany FAX: (49) 6221-764620

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