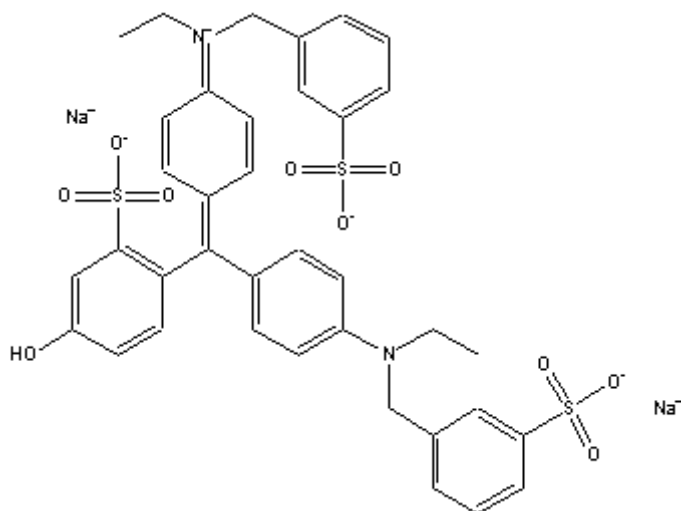


Catalog Number: 195178, 800662

Fast Green FCF

Structure:



Molecular Formula: $C_{37}H_{34}N_2O_{10}S_3Na_2$

Molecular Weight: 808.84

CAS # : 2353-45-9

Synonyms: Food Green 3; C. I. 42053

Physical Description: Maroon powder

Recommended Storage: Room temperature

Description: Stain for showing collagen, muscle, cytoplasm, cells and cornified epithelium in mammalian tissue. Also can be used as a substitute for Light Green SF Yellowish in cytology and histology.

Sensitive stain for proteins. A linear relationship exists between protein concentration and color density in the range from 5 to 50 mg.

*Staining Procedures*³ lists methods and a bibliography for the following applications: Fast-Green modification of the Van Gieson stain; Lillie modification of Masson's trichrome stain; Kornhauser's "Quad" stain; Orcein and Feulgen techniques; modified Azan-staining technique for

insects; Hematoxylin-Biebrich Scarlet-Fast Green (designed to show mantle-tissue glandular muscle, connective and nervous tissue); tannic acid-ferric chloride-Safranin-Fast Green for staining meristemic tissues; use with Safranin as a stain for plant tissue; stain for demonstrating nuclear histones; counterstain for Acid Fuchsin-lactophenol (designed to differentiate between fungal structures on leaf structures and those that are subcuticular or intracellular); Gimenez Stain for psittacosis and other rickettsial agents in yolk-sac cultures.

Solubility: Soluble in water (60 mg/ml) or ethanol (5 mg/ml).

References:

1. *Stain Technol.*, v. 18, 95 (1943) and v. 20, 33 (1945).
2. *Arch. Pathol.*, v. 29, 705 (1940).
3. Clark, G., *Staining Procedures*, 4th Ed.; Williams and Wilkins: Baltimore, 1981; pp. 114, 120-121, 125, 197, 262, 301, 319-320, 324-325, 336-337, 355, 368, 415.