

Sudan Black B

Cat NO. IS4810

Storage: RT, 2 years (protect from light)

Introduction:

Sudan Black B is a fat-soluble diazo dye and a histochemical stain. Sudan Black B can dissolve in the lipid-containing structure in the cytoplasm, making the lipids such as fat, phospholipid and cholesterol appear brown-black or dark black, and locate in the cytoplasm. Sudan Black B is also reported to be able to detect natural and oxidized low density lipoprotein (LDLs) by capillary iso-tachyelectrophoresis (CITP). It has been used for fat staining in animal tissues and bacteria (Burdon method), as well as for lipid decomposition of lipoproteins in polyacrylamide gel electrophoresis.

Sudan Black B can be used to show the steatosis and abnormal lipid deposits of tissues and organs, which often occur in the steatosis of the liver, kidney, heart and other solid organs, and most of the neutral fat droplets appear in the cells. Identify and diagnose tumors and their properties that occur in adipose tissue. In general, neurophospholipin, encephalin, lipoma, liposarcoma, follicular membrane tumor, adrenal cortical adenoma, etc. were positive after Sudan black B staining; Clear cell carcinoma of kidney and fibroma of ovary were negative after Sudan black B staining.

Parameters

CAS: 4197-25-5

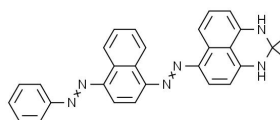
Molecular Formula: $C_{29}H_{24}N_6$

Molecular Weight.: 456.54

Purity: $\geq 98\%$

Appearance: Brown to black Solid

Solubility: Soluble in Ethanol



Protocols (only for reference)

Method I

Sudan Black B is directly dissolved in 70%-100% ethanol solution and can be used.

Method II

Weigh 50mg Sudan Black B and add 2mL acetone, 1.5mL acetic acid and 8.5mL water. Dissolve completely into a blue-black solution.

Note

1. For your safety and health, please wear laboratory coats and disposable gloves when operating.
2. This product is for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store it in ordinary residential areas.