

Stain-All *UltraPure Grade*

Ordering Information

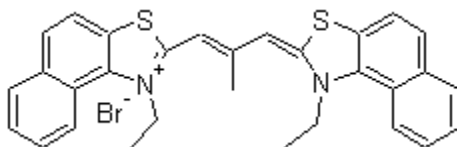
Product Number: 10050 (25 mg)

Storage Conditions

Store desiccated at -20 °C.
Expiration date is 12 months from the date of receipt.

General Properties

Molecular Weight: 559.58
Appearance: Dark blue fine crystals
Maximum excitation: 573 nm
Maximum Emission: 609 nm
Solvents: DMSO
Chemical structure:



Biological Applications

Stains-all is suitable for differential staining of nucleic acids and proteins. It stains RNA on bluish purple, DNA in blue and proteins in red. As little as 3 ng (123 BP fragment) of pBR322/Hae III digest DNA and 90 ng tRNA can be detected on a polyacrylamide gel. PAGE gels are stained in the dark and then destaining by removing the gel from the staining solution and exposing it to the light from a light box until sufficient destaining has occurred. A staining solution is typically made by dissolving the dye in formamide and buffer.

Storage Conditions

Store at -20 °C. Expiration date is one year from the date of receipt.

General Protocol

1. Make a **0.1% formamide stock stain** by adding 10 mg Stains-All into 10 mL of formamide.
2. Make **Stains-All Working Solution** as the following:
 - 1 ml stock stain
 - 1 ml formamide
 - 5 ml isopropanol
 - 100 µl 3.0 M Tris-HCl, pH 8.8
 - 12.9 ml water
3. **Stains**
 - 3.1. RNA - bluish purple color
 - 3.2. DNA - blue color
 - 3.3. Proteins - Red color
 - 3.4. Acid mucopolysaccharides – various
4. **Gel Electrophoresis:**
 - 5.1 Stain gel by soaking it in a covered container for 18 to 24 hours, protect from light.
 - 5.2 Destain the gel by soaking it in water, protect from light.
 - Note 1: Exposure to light produces a dull yellow background.*
 - Note 2: Destaining may also be done by exposing the gel to light for 30 minutes.*

Disclaimer: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact our technical service representative for more information.