

Stain-All *CAS 7423-31-6*

Catalog number: 10050

Unit size: 25 mg

Component	Storage	Amount
Stain-All *UltraPure Grade*	Freeze (<-15 °C), Minimize light exposure	25 mg

OVERVIEW

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.

AT A GLANCE
Important

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

Maximum Excitation: 573 nm

Maximum Emission: 609 nm

PREPARATION OF STOCK SOLUTIONS

Unless otherwise noted, all unused stock solutions should be divided into single-use aliquots and stored at -20 °C after preparation. Avoid repeated freeze-thaw cycles.

1. 0.1% Stains-All stock stain:

Add 10 mg of Stains-All into 10 mL of formamide and mix well.

PREPARATION OF WORKING SOLUTION
Stains-All working solution:

Mix 1 mL stock stain, 1 mL formamide, 5 mL isopropanol, 100 µL Tris-HCl (3.0 M, pH-8.8) and 12.9 mL water, Mix well.

SAMPLE EXPERIMENTAL PROTOCOL

Table 1. Stain colors of different biomolecules with Stain-All

Biomolecule	Stain Color
RNA	Bluish Purple
DNA	Blue
Proteins	Red
Acid Mucopolysaccharides	Various

Gel Electrophoresis

1. Stain gel by soaking it in a covered container for 18 to 24 hours, protected from light.
2. Destain the gel by soaking it in water, protected from light. *Note:* Exposure to light will produce a dull yellow background. *Note:* Destaining may also be done by exposing the gel to light for 30 minutes.

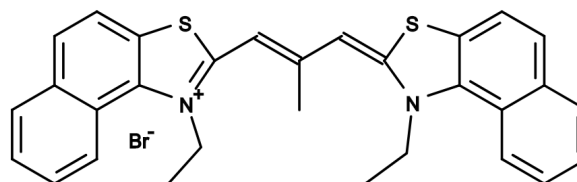
EXAMPLE DATA ANALYSIS AND FIGURES


Figure 1. Chemical structure for Stain-All *CAS 7423-31-6*

DISCLAIMER

AAT Bioquest provides high-quality reagents and materials for research use only. For proper handling of potentially hazardous chemicals, please consult the Safety Data Sheet (SDS) provided for the product. Chemical analysis and/or reverse engineering of any kit or its components is strictly prohibited without written permission from AAT Bioquest. Please call 408-733-1055 or email info@aatbio.com if you have any questions.