

Diff-Quik Stain (Fixative-Free)

Cat. No.: D1511557 | Pack size: 2 x 100 mL / 2 x 500 mL | Storage: Protected from light, room temperature

Overview

Diff-Quik staining is a rapid staining method developed and improved based on Wright staining. It is commonly used for cytological examination and is formulated according to rapid staining principles similar to Romanowsky staining.

This Diff-Quik Stain does not contain fixative solution. It is mainly used for staining blood smears, bone marrow smears, vaginal secretion smears and exfoliative cell smears, and is suitable for batch dip staining.

Key Features

- Fixative-free Diff-Quik rapid stain system
- Staining can generally be completed within approximately 90 seconds
- Suitable for blood smears, bone marrow smears, vaginal secretion smears and exfoliative cell smears
- Clear background with no sediment when used as recommended

Product Information

Item	Description
Synonyms	Diff-Quik Stain Diff Stain
Specifications & Purity	BioReagent, Bioactive, for microscopy
Stability & Storage	Store at room temperature long term (12 months). Store in the dark.
Storage Conditions	Protected from light, room temperature
Shipping	Normal
Grade	Bioactive, BioReagent, for microscopy

Contents & Storage

Cat. No.	Component	2 x 100 mL	2 x 500 mL	Storage
D1511557A	Diff-Quik I	100 mL	500 mL	RT, protect from light
D1511557B	Diff-Quik II	100 mL	500 mL	RT, protect from light

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves, eye protection	Safe staining operation
Clean slides	Uniform smears	Sample support
Methanol	For fixation when required	Fix smears before staining
Distilled or tap water	Fresh	Rinsing
Xylene and neutral balsam	For valuable slides	Clearing and mounting
Microscope	Bright-field microscope	Observation

Preparation Before Use

1. Prepare blood smears or bone marrow smears using routine methods and ensure smears are of uniform thickness.
2. Fresh whole blood or EDTA-anticoagulated blood is recommended for blood cell smears.
3. For fixative-free kit use, provide separate methanol fixation if required by the specimen workflow.

Protocol

Protocol (For Reference Only)

1. Prepare blood smears or bone marrow smears using routine methods. Allow to air-dry or briefly pass over an alcohol lamp flame, then fix with methanol for 20-30 seconds.
2. Stain in Diff-Quik Stain Solution I for 5-10 seconds.

3. Stain in Diff-Quik Stain Solution II for 5-10 seconds.
4. Rinse with water and examine immediately under a microscope while wet.
5. Clear valuable slides with xylene, mount and preserve with neutral balsam.

Expected Results

Structure	Expected Color
Nuclei, leukocytes	Dark blue
Matrix, lymphocytes	Purple
Cytoplasm, erythrocytes	Pink

Storage & Handling

Store as indicated on the product label: Protected from light, room temperature.

Shelf life: Store at room temperature long term (12 months). Store in the dark.

Safety & Precautions

1. Blood or bone marrow smears should be of uniform thickness to avoid affecting staining results.
2. For bone marrow smears, shake or fan rapidly in air after preparation. Do not dry smears with high heat or open flame.
3. For vaginal discharge smears, fix fresh specimens promptly by flame or alcohol after smearing to prevent cell deformation.
4. If staining is too intense or too faint, adjust staining time or working solution concentration accordingly.
5. pH affects staining; slides must be clean and free of acid or alkali contamination.
6. Wear a lab coat and disposable gloves during operation. For research use only.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Conforms to the appearance described in this manual; no obvious contamination or abnormal precipitation unless specified.
Identity and labeling	Receipt inspection	Catalog number, lot number, size, storage condition and expiry date are legible.
Functional check	Run with representative sample or positive control	Expected staining, preservation, coagulation or assay performance is observed under the recommended procedure.

Troubleshooting

Issue	Possible Causes	Corrective Action
Weak staining	Staining time too short or reagent exhausted	Increase staining time within the recommended range or replace reagent.
Overstaining / high background	Staining time too long or inadequate washing	Shorten staining time and rinse thoroughly with water.
Uneven staining	Uneven sample thickness or insufficient reagent coverage	Prepare uniform smears/sections and ensure the specimen is fully covered.
Precipitate on slide	Unfiltered or aged staining solution	Filter staining solution when required and replace regularly.
Unexpected color	pH or contamination effects	Use clean slides and freshly prepared or uncontaminated reagents.

Recommended Applications

Rapid cytological staining • Blood smears • Bone-marrow smears • Vaginal secretion smears • Exfoliative cell smears • Batch dip-staining workflows

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.