

Nuclear Fast Red Staining Solution (0.1%)

Cat. No.: N743376 | Pack size: 100 mL | Storage: Room temperature; protect from light

Product Information

Attribute	Value
Product Name	Nuclear Fast Red Staining Solution (0.1%)
Cat. No.	N743376
Pack Size	100 mL
CAS No.	6409-77-4
Molecular Formula	C ₁₄ H ₈ NNaO ₇ S
Molecular Weight	357.28
EC Number	229-088-0
Synonyms	Nuclear Fast Red Kernechtrot Calcium Red
Specifications & Purity	BioReagent, Biological Stain, for Microscopy, 0.1% in Deionized water
Application	Biological staining
Storage	Protected from light; room temperature
Stability & Storage	Store at room temperature long term (12 months). Store in the dark.
Shipped In	Normal

Product Description

Nuclear Fast Red Staining Solution is a reagent for staining cell nuclei with nuclear fast red. It serves as a commonly used counterstain for tissue section staining, staining cell nuclei red after staining. Nuclear fast red, also known as Kernechtrot or Calcium Red, has the molecular formula C₁₄H₈NNaO₇S, molecular weight of 357.27 and CAS No. 6409-77-4. It appears as slightly reddish to dark brown powder, soluble in ethanol and water. As a widely applied counterstain in tissue section staining, nuclear fast red staining solution binds to cell nuclei and stains them red. It can also be used for the determination of calcium in serum. This staining solution is frequently used in combination with Prussian Blue Staining Solution.

Instructions for Use

1. Sample Preparation

1.1 Paraffin sections: Deparaffinize in xylene, twice for 3-5 min each.

Dehydrate with absolute ethanol for 5 min, 90% ethanol for 2 min, 70% ethanol for 2 min, then rinse with PBS for 2 min.

1.2 Frozen sections: Rinse with PBS for 2 min.

1.3 Cultured cells: Fix with 4% paraformaldehyde for no less than 10 min, wash with PBS twice for 2 min each.

2. Nuclear Fast Red Staining

Counterstain with Nuclear Fast Red Staining Solution for 1-5 min. The staining duration can be adjusted according to staining effect and experimental requirements.

Staining Result

Stained Structure	Result
Cell nuclei	Red

Safety & Precautions

1. It is recommended to conduct a pilot test with 1-2 samples before formal experiments upon first use of this kit.
2. For personal safety, wear appropriate protective equipment such as lab coat and gloves before handling the reagent.

Recommended Applications

Nuclear Fast Red Staining Solution is used as a counterstain for tissue section staining and stains cell nuclei red.

It can also be used for the determination of calcium in serum and is frequently used in combination with Prussian Blue Staining Solution.

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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- ☐ 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.
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