



# Instructions For Use

## NFS-IFU

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## Nuclear Fast Red Solution

(Enhanced Stability)

### Description and Principle

Nuclear Fast Red is a stain with histological applications. The reagent has improved stability over current formulations allowing storage at temperatures ranging from 2-30° Centigrade. Current formulations tend to precipitate in cold temperatures such as experienced during winter shipping. In addition, most formulations develop a small amount of precipitate over extended periods of time. This advanced formulation eliminates problems associated with exposure to cold and aging.

### Expected Results

Nuclei: Red  
Cytoplasm: Pale Pink

### Suggested Controls *(not provided)*

Any well fixed paraffin embedded or frozen tissue section, Cell Smear, Cytospin.

### Uses/Limitations

Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use if reagent become cloudy.  
Do not use past expiration date.  
Use caution when handling reagent.  
Non-Sterile.

### Storage

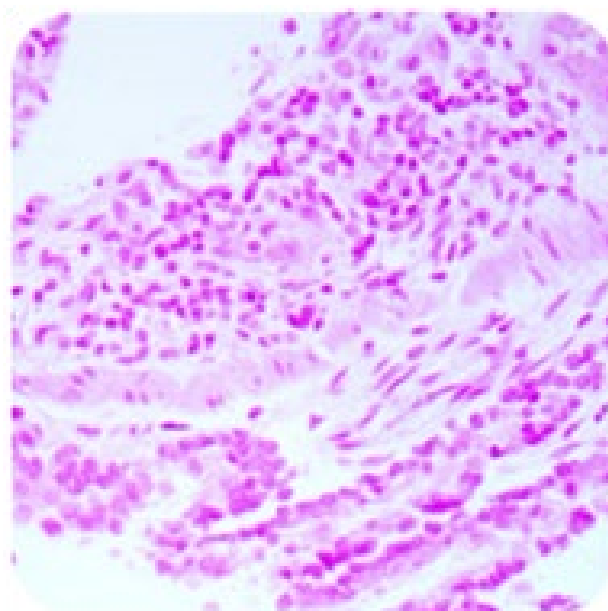
Store at 2-30°.

### Safety and Precautions

Please see current Safety Data Sheets (SDS) for this product and components GHS classification, pictograms, and full hazard/precautionary statements.

### Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply Nuclear Fast Red Solution (Enhanced Stability) and incubate for 1-5 minutes.
3. Rinse in 2 changes of distilled water.
4. Dehydrate through graded alcohols.
5. Clear, and mount in synthetic resin.



### References

1. Lee, J.H., Smith, M.A., Liu, W., Gold, E.M., Lewis, B., Song, H.T., Frank, J.A. Enhanced stem cell tracking via electrostatically assembled fluorescent SPION-peptide complexes. *Nanotechnology*, September 2, 2009, Volume 20(35): 355102. doi: 10.1088/0957-4484/20/35/355102
2. Song, H.T., Jordan, E.K., Lewis, B.K., Gold, E., Liu, W., Frank, J.A. Quantitative T2\* imaging of metastatic human breast cancer to brain in the nude rat at 3T. *NMR in Biomedicine*, April 2011, Volume 24, Issue 3: pages 325-334. doi: 10.1002/nbm.1596
3. Burks, S.R., Ziadloo, A., Hancock, H.A., Chaudhry, A., Dean, D.D., Lewis, B.K., Frenkel, V., Frank, J.A. Investigation of Cellular and Molecular Responses to Pulsed Ultrasound in a Mouse Model. *PLoS One*. 2011, Volume 6(9): e24730. doi: 10.1371/journal.pone.0024730



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