

NANOVAN™



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PRODUCT INFORMATION

NANOVAN™

Product Name: NANOVAN
Catalog Number: 2011
Appearance: Colorless or pale yellow solution
Revision: 1.2 (March 2000)

GENERAL INFORMATION

NANOVAN™ is a negative stain for electron microscopy specially tailored for use with NANOGOLD™ antibody conjugates, not available elsewhere. It is based on vanadium, which has a lower atomic number (23) than other elements commonly used as negative stain reagents such as uranium (92), tungsten (74) or lead (82). NANOVAN™ is recommended for visualization of all samples labeled with NANOGOLD™, and may be used in other applications where a relatively light stain is required.¹ It produces a light, uniform negative stain. NANOVAN™ is stable, non-volatile in the beam and will not denature protein samples.

NANOVAN™ is supplied ready-to-use, as a 2 % solution in water at pH 8.0. It is recommended that this product not be used at pH values lower than 7 since precipitation may occur.

NANOVAN™ should be refrigerated upon receipt, and stored at 2 - 8°C.

INSTRUCTIONS FOR USE

NANOGOLD™ labeling, washing and postfixing (if required) should be completed as directed in the instructions supplied with the appropriate product, and the specimen rinsed thoroughly with deionized water. NANOVAN™ is supplied ready-to-use as a 2 % solution in water at pH 8.0. Apply a few drops, sufficient to wet the specimen completely, then wick to remove the excess and observe as usual.

REFERENCES

1. Tracz, E., Dickson, D. W., Hainfeld, J. F., and Ksiezak-Reding, H. *Brain Res.*, **773**, 33-44 (1997).
2. Gregori, L., Hainfeld, J. F., Simon, M. N., and Goldgaber, D. Binding of amyloid beta protein to the 20S proteasome. *J. Biol. Chem.*, **272**, 58-62 (1997).
2. Hainfeld, J. F.; Safer, D.; Wall, J. S.; Simon, M. N.; Lin, B. J., and Powell, R. D.; *Proc. 52nd Ann. Mtg., Micros. Soc. Amer.*; G. W. Bailey and Garratt-Reed, A. J., (Eds.); San Francisco Press, San Francisco, CA, **1994**, p. 132.
3. Tracz, E.; Dickson, D. W.; Hainfeld, J. F., and Ksiezak-Reding, H.; *Proc. XIIIth Int. Cong. for Electr. Micros.*, Paris, **1994**, pp. 675-676.

Technical Assistance Available.

For a complete list of references citing this product, please visit our world-wide-web site at <http://www.nanoprobes.com/Ref.html>.