Nova TBE Buffer Solution

5X concentrated

Reference: AB15030

INTENDED USE AND PRESENTATION:

Ready-to-use buffer solution widely used in molecular biology research.

AB15030, 600 mL. 6x100 mL.

For research use only.

SUMMARY, EXPLANATION AND LIMITATIONS:

The Tris-Borate-EDTA Buffer 10X concentrated is an aqueous solution. On dilution, the resultant 1X PBS buffer will have final concentration: 89 mM Tris Base, 89 mM Borate, 2 mM EDTA, pH 8,2.

APPLICATIONS:

The Tris-acid solution is effective buffer for slightly basic conditions, which keep DNA deprotonated and soluble in water.

PRODUCT COMPOSITION:

This product is provided as a solution buffer.

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for PCR and determination procedures are not provided with this reagent. This includes sterile reaction tubes, micropipettes and tips, template DNA, gen-specific PCR primer pair, dNTPs mixture, PCR grade H_2O, heat pretreatment equipment (thermoblock, microwave), centrifuge, cold store and thermal block cycler.

Buffered solutions for DNA extraction or purification, enzyme treatments, highly sensitive detection systems, and other auxiliary reagents are available from Gennova Scientific.

STORAGE AND STABILITY:

Store at room temperature until the expiration date printed on product label. Avoid prolonged exposure to light. Do not use after the expiration date. If the product is stored under different conditions from those stipulated in these technical indications, the new conditions must be verified by the user. The validity period of the ready to use products when opened, is the same as the expiration date indicated on the label of intact product.

Gennova Scientific guarantees that the product will maintain all of the described characteristics from the production date until the expiration date, as long as the product is stored and used as recommended. No other guarantees are provided.

Under no circumstances Gennova Scientific is obliged to cover damages caused by use of this reagent.

TROUBLESHOOTING:

If unusual banding is observed or any other deviations from the expected results, please read these instructions carefully, along with the instructions from the PCR and determination systems. If this does not solve the problem, please contact Gennova Scientific's technical support department (techsupport@gennovalab.com) or your local distributor.

PRECAUTIONS:

Use only by qualified personnel.

Use proper protective equipment in order to avoid contact with reagents and samples in the eyes, skin, and mucosal tissues. In case of contact with sensitive areas, immediately flush the affected area with water. Avoid microbial contamination of the reagent, as this may produce nonspecific amplification results.

Material safety data sheet (MSDS) is available upon request.

PERFORMANCE CHARACTERISTICS:

Gennova Scientific has performed studies to evaluate the functioning of this ladder for use with standard visualization and determination systems, concluding that the product is both specific and sensitive for determination performance.

BIBLIOGRAPHY:

Chien A., Edgar D.B., Trela J.M., "Deoxyribonucleic acid polymerase from the extreme thermophile *Thermus aquaticus*", Journal of Bacteriology, 127(3), 1550-57, 1976.

Lawyer F.C., Stoffel S., Saiki R.K., Myambo K., Drummond R., et al., "Isolation, characterization, and expression in *Escherichia coli* of the DNA polymerase gene from Thermus aquaticus", The Journal of Biological Chemistry, 264(11), 6427-37, 1989.

Tindall K.R., Kunkel T.A., "Fidelity of DNA synthesis by the *Thermus aquaticus* DNA polymerase", Biochemistry, 27(16), 6008-13, 1988.

Innis M.A., Myambo K.B., Gelfand D.H., Brow M.A., "DNA sequencing with *Thermus aquaticus* DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA", Proceedings of the National Academy of Sciences of the United States of America, 85(24), 9436-40, 1988.

Lo Y.M., Mehal W.Z., Fleming K.A., "Rapid production of vector-free biotinylated probes using the polymerase chain reaction", Nucleic Acids Research, 16(17), 8719, 1988.

Erlich H.A., (ed.) 1988, "PCR technology: principles and applications for DNA amplification", Stockton Press, New York.

REF Catalog number | LOT Batch code | RUO Research use only

Temperature limitation | Expiration date

Manufacturer | See instruction for use

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