

Nova 2 mM Nucleotide Mix

Ready to use

Reference: AB15010



1 of 1

INTENDED USE AND PRESENTATION:

This Nucleotide Mix is widely used in molecular biology research.

AB15010, 1 mL. 2mM of each one.

For research use only.

SUMMARY, EXPLANATION AND LIMITATIONS:

Easy to use, time-saving solutions for use in applications requiring dNTPs of high purity. Nova Nucleotide Mix contains dATP, dCTP, dGTP and dTTP, each at a final concentration of 2 mM. Nova Nucleotide Mixes has been tested for PCR and is compatible for all enzymes provided by Genova.

Quality Control: Functionally tested in PCR with Genova DNA Polymerases. Purity of each component is $\geq 99\%$ (HPLC). Free of endo-, exodeoxyribonuclease, ribonuclease, phosphatase and nicking activities.

APPLICATIONS:

Nova Nucleotide Mix is a Mix for all your everyday PCR reactions, qPCR, cDNA synthesis, DNA sequencing and DNA labeling.

PRODUCT COMPOSITION:

This ready-to-use Nova Nucleotide Mix consists of dATP, dCTP, dGTP and dTTP (each at a final concentration of 2 mM) in sterile deionized water, within one tube.

METHODS AND PROCEDURE:

N/A

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for PCR and determination procedures are not provided with this mix. This includes sterile reaction tubes, micropipettes and tips, template DNA, gen-specific PCR primer pair, dNTPs mixture, PCR grade H₂O, 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 Genova Scientific.

STORAGE AND STABILITY:

Store at -20°C until the expiration date printed on product label. Avoid prolonged exposure to light. Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes. 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.

Genova 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 Genova 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 Genova Scientific's technical support department (techsupport@genovalab.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:

Genova 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:

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

F01IT04_AB15009_V1R1012_EN_Nova_Nucleotide_Mix_2mM



Catalog number



Batch code



Research use only



Temperature limitation



Expiration date



Manufacturer



See instruction for use



Genova Scientific, S.L.
C/ Johann Gutenberg, 4F. Pol. Ind.
El Cafamo I • 41300 San Jose
de La Rinconada • Sevilla, SPAIN
Telefono: +34 954 150767
Fax: +34 955 266494

info@genovalab.com
www.genova-europe.com