Nova Star 100 bp DNA Ladder Express

Reference: AB15014

INTENDED USE AND PRESENTATION:

This ladder is widely used in molecular biology research.
AB15014, 50 µg. Concentration of 0,1 µg/µL.
For research use only.

SUMMARY, EXPLANATION AND LIMITATIONS:

Nova Star 100 bp DNA Ladder Express can be used for precise visual sizing of double stranded DNA fragments from 100 to 1000 bp on agarose gels. Supplied in sufficient quantity for 100 loadings using 4-5 µl per loading.
For best results, please load 5 µl of the Nova Star 100 bp DNA Ladder per well.
Note: Not designed for quantitating DNA concentration in a sample.

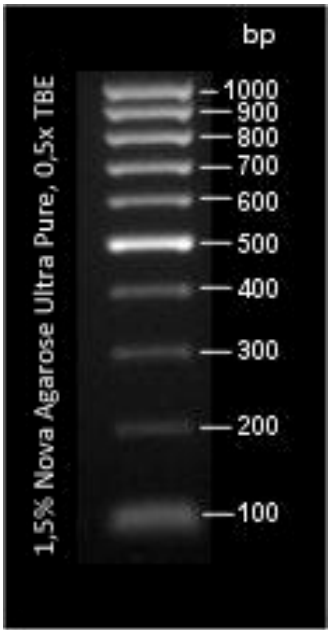

Figure 1. Nova Star 100 bp DNA Ladder Express showing DNA fragments from 100-1000.

APPLICATIONS:

Nova Star 100 bp DNA Ladder Express is a ladder marker for size determination of PCR generated DNA fragments. This marker can be used with either agarose or polyacrylamide gels. The recommended agarose gel concentration is 1,5% for this marker.

PRODUCT COMPOSITION:

Consists of multiple repeats of 100-bp fragments from 100 bp up to 1000 bp.

METHODS AND PROCEDURE:

The ladder is premixed with Loading Dye Solution for direct loading onto agarose gels.

REQUIRED MATERIALS BUT NOT SUPPLIED:

All reagents, materials, and laboratory equipment for PCR and determination procedures are not provided with this ladder. 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 -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.
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.

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REF Catalog number
LOT Batch code
RUO Research use only
Temperature limitation
Expiration date
Manufacturer
See instruction for use

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