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Datasheet for MB-204-0500

Diamond DNA Ladder 250-10Kbp

Overview

Description:	Diamond Ready-to-Use DNA Ladder 250-10Kbp - MB-204-0500
Item No.:	MB-204-0500
Size:	500 µL
Applications:	SDS-PAGE, Other

Product Details

Background:	Diamond Ready-to-Use DNA Ladder 250-10Kbp is a unique combination of a number of proprietary plasmids digested with appropriate restriction enzymes and PCR products to yield 13 fragments, suitable for use as molecular weight standards for agarose gel electrophoresis. The DNA includes fragments ranging from 250-10,000 base pairs. The 1K and 3K bands have increased intensity to serve as reference points. The approximate mass of DNA in each band is provided (0.5 µg a load) for approximating the mass of DNA in comparably intense samples of similar size.
Synonyms:	DNA ladder, DNA marker, DNA standard, Molecular weight marker, DNA molecular weight ladder, Ready-to-use DNA ladder, DNA agarose ladder
Reagent Type:	MW Standards

Target Details

Purity/Specificity:	Diamond Ready-to-Use DNA Ladder 250-10Kbp is comprised of PCR products and double-stranded DNA that were digested with appropriate restriction enzymes, are phenol extracted, and equilibrated to 10 mM Tris-HCl (pH 8.0) and 10mM EDTA.

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Other (Based on references)
Application Note:	Diamond Ready-to-Use DNA Ladder 250-10Kbp has a suggested load volume is 5 µL/well.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

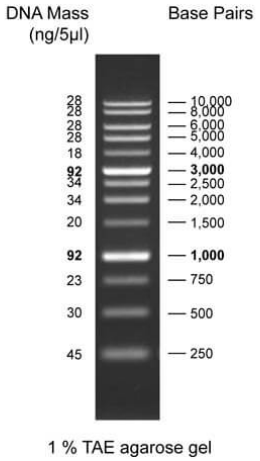
Formulation

Physical State:	Liquid (in 1x Loading Buffer)
Concentration:	100 µg/mL Sufficient to run approximately 100 tests
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 2°-8° C. Can be stored at room temperature for up to three (3) months or at -20° C for up to one (1) year.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



1 % TAE agarose gel

SDS-PAGE
Diamond Ready-to-Use DNA Ladder 250-10Kbp shows this typical migration pattern when loaded at 5 µL per well on a 1.0% TAE agarose gel.

References

- Dominguez-Ortiz J et al. A Molecular Characterization of the Allelic Expression of the BRCA1 Founder Δ9-12 Pathogenic Variant and Its Potential Clinical Relevance in Hereditary Cancer. *Int J Mol Sci.* (2024)

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