

# Certificate of Analysis

Product Name : 100bp DNA Ladder

Cat No :D1100

Lot No : 10192111

Exp. Nov. 2024

TEST	Specification	Result
A260/A280 Assay	1.8 - 2.0	PASS
DNA Concentration(A260)	500 –550 ug/ml	PASS
DNase Activity ( DNA, 16 hour)	Non degradation	PASS
Electrophoretic Pattern	Clear Identifiable bands	PASS

#### A260/A280 Assay

The ratio of UV absorption of 100 bp DNA Ladder at 260 and 280 nm is between 1.8 and 2.0.

#### DNA Concentration (A260)

The concentration of 100bp DNA Ladder is between 500 and 550 µg/ml as determined by UV absorption at 260 nm.

#### Non-Specific DNase Activity (DNA, 16 hour)

A 50 µl reaction in 1X Buffer containing 2.5 µg of 100 bp DNA Ladder incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

#### Electrophoretic Pattern

The banding pattern of 1 kb DNA Ladder on a 1.2% agarose gel shows discrete, clearly identifiable bands at each size fragment of the marker, when stained with Ethidium Bromide at a concentration of 0.5 µg/ml.

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