



Certificate of Analysis

Axygen Biosciences Limited hereby certifies that the product described below has been manufactured in accordance with established manufacturing guidelines and product specifications. The product conforms to all Quality requirements.

Catalog Number: M-DNA-100 bp

Product Description: 100 bp Ladder DNA marker (100bp-3000bp)

Mfg. Lot Number: MD03090302

1、 PERFORMANCE REQUIREMENT

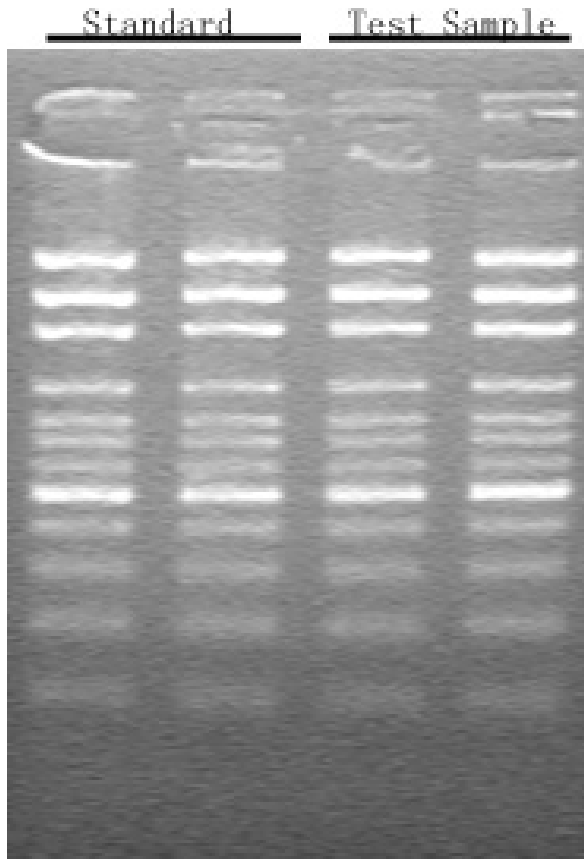
- 1.1 The total DNA concentration is 100 ng/μl ± 5%。
- 1.2 The 100 bp DNA marker contains 12 discrete fragments. The concentration of DNA fragments is 3000 bp 10.8 ng/μl, 2000 bp 14.7 ng/μl, 1500 bp 11.6 ng/μl, 1000 bp 7.7 ng/μl, 800 bp 6.2 ng/μl, 700 bp 5.4 ng/μl, 600 bp 4.6 ng/μl, 500 bp 15 ng/μl, 400 bp 6.0 ng/μl, 300 bp 5.6 ng/μl, 200 bp 6.0 ng/μl, 100bp 6.0 ng/μl.
- 1.3 The 1kb DNA marker contains 13 discrete fragments. The concentration of DNA fragments is 10000 bp 8 ng/μl, 8000 bp 8 ng/μl, 6000 bp 8 ng/μl, 5000 bp 8 ng/μl, 4000 bp 8 ng/μl, 3000 bp 12 ng/μl, 2500 bp 12.3 ng/μl, 2000 bp 8.1 ng/μl, 1500 bp 7.3 ng/μl, 1000 bp 4.1 ng/μl, 700 bp 5.7 ng/μl, 500 bp 6.1 ng/μl, 300 bp 4.4 ng/μl.
- 1.4 Load 5-10μl of marker pre well onto the Agarose gel for electrophoresis, the DNA band was clearly and no degradation by illuminant examination under UV-light.

2、 Electrophoretic Testing Specification:

- 2.1 Agarose gel electrophoresis of the samples exhibits a defined plasmid band with no degradation.
- 2.2 Comparison of the Test Sample to a previously tested Standard. Acceptable range for Test Sample is $\leq \pm 10\%$ of Standard, based upon analysis. The “Standard” is a previously tested and validated sample.

TEST	SPECIFICATION	TEST RESULTS
MD030090302	Electrophoretic Testing	PASS

Gel image:



1: Standard

2: Test Sample MD03090302

The concentration of DNA fragments is 3000 bp 108 ng/10 μ l, 2000 bp 147 ng/10 μ l, 1500 bp 116 ng/10 μ l, 1000 bp 77 ng/10 μ l, 800 bp 62 ng/10 μ l, 700 bp 54 ng/10 μ l, 600 bp 46 ng/10 μ l, 500 bp 150 ng/10 μ l, 400 bp 60 ng/10 μ l, 300 bp 56 ng/10 μ l, 200 bp 60 ng/10 μ l, 100bp 60 ng/10 μ l.

Axygen Biosciences Limited warrants and represents that all inspections and testing for the article described above have been performed at Axygen Biosciences Limited QC laboratory located on-site at the manufacturing plant. Axygen Biosciences Limited manufacturing facility is located at Building B2, Industrial Zone of Xicheng District (Huafeng, Shiqiao), Hangzhou 310022, P.R.China

Approved By: _____ Date: _____
Quality Assurance