



# Certificate of Analysis

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Product Name:	UE Midi Plasmid Kits	Lot ID:	220602KA1
Catalog Number:	UE-MD-P-10	Expiration Date:	06-01-2025

## Quality Control

### Spectrophotometric Analysis

- Acceptable Range for A260/A280=1.8±0.15.
- Comparison of the Test Sample to a previously tested Standard. Acceptable range for Test Sample is ≤ ±10% of Standard, based upon spectrophotometric analysis. The “Standard” is a previously tested and validated sample.

### Restriction Analysis

- 1µg of plasmid is digested to completion by EcoRI

### Electrophoretic Analysis

- Agarose gel electrophoresis of the samples exhibits a defined plasmid band with no degradation.
- Agarose gel electrophoresis of the samples exhibits no contaminating RNA.
- Agarose gel electrophoresis of the samples exhibits no contaminating bacterial genomic DNA.

### Gel Image and Test Data

Item	Test Date						Sample
	1	2	3	4	5	6	
A260	2.08	1.88	2.19	2.51	2.17	2.05	1,2,3 are duplicate Test Samples 4,5,6 are duplicate Standards
A280	1.08	0.98	1.14	1.37	1.14	1.06	
A260/A280	1.92	1.92	1.93	1.84	1.91	1.93	
Yield (µg)	155.78	141.37	164.44	188.26	163.11	154.02	
Electrophoresis	✓	✓	✓	✓	✓	✓	PASS
No visible RNA	✓	✓	✓	✓	✓	✓	
Endonuclease digest	✓	✓	✓	✓	✓	✓	
[Test Sample/Standard] Yield Difference	-9.0%						PASS