HiYield™ Plasmid Mini Kit

Increased Yield of Plasmid DNA

Sample: **1-4 ml of Bacterial Cultures**
Yield: **Low-Copy Plasmid 3-10 µg / High-Copy Plasmid 20-30 µg**
Format: **Spin Columns**
Operation: **Centrifuge or Vacuum**
Operation Time: **20 Minutes**

Store at room temperature 15°C~25°C

Cat. No. YPD100
100 mini preps / kit
PD1 Buffer: 25 ml
PD2 Buffer: 25 ml
PD3 Buffer: 45 ml
Wash Buffer (concentrated): 25 ml
W1 Buffer: 45 ml
Elution Buffer: 6 ml
RNase A (50 µg/µl): 50 µl
PD Column: 100 pcs
2 ml Collection Tube: 100 pcs

Cat. No. YPD300
300 mini preps / kit
PD1 Buffer: 65 ml
PD2 Buffer: 75 ml
PD3 Buffer: 100 ml
Wash Buffer (concentrated): 50 ml
W1 Buffer: 130 ml
Elution Buffer: 30 ml
RNase A (50 µg/µl): 130 µl
PD Column: 300 pcs
2 ml Collection Tube: 300 pcs

Description

HiYield™ Plasmid Mini Kit is designed for rapid isolation of up to 30 µg plasmid or cosmid DNA from 1-4 ml of bacterial cultures. For large scale plasmid purification, we recommend ion exchange based Fast Ion Plasmid Midi/Maxi Kits.

Features

High, reproducible recovery of plasmid DNA.
Rapid and simple procedure.
No phenol, chloroform or alcohol.

Applications

Purified DNA are ready for direct use in DNA Sequencing, DNA Library Screening and Analysis, Restriction Digestion, Ligation and Transformation.

Quality Control

The quality of HiYield™ Plasmid Mini Kits are tested on a lot-to-lot basis. The Kits are tested by isolation of plasmid DNA from 4 ml culture of E.coli DH5a transformed with the plasmid pBluescript (A_{600} > 2 units/ml).

To order contact:
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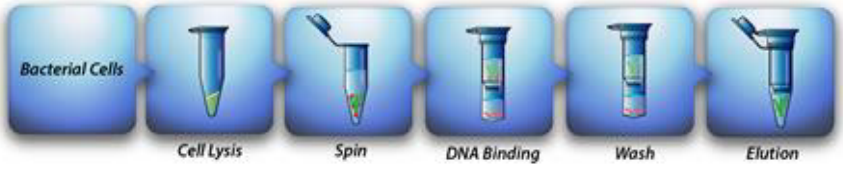
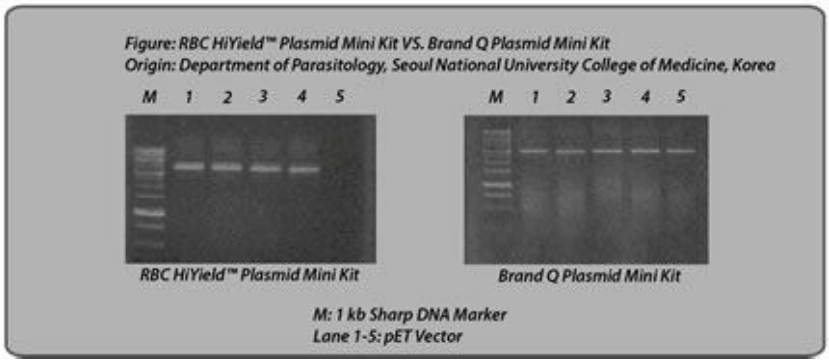


HiYield™ Plasmid Mini Kit: Yield, Purity and Stability Test — *Each Sample Tested 3X*

Real Genomics™	DH5a/TA			BL21/pET20b		
Volume(μl)	43	44	44	44.5	44.5	43.5
DNA Concentration(μg/μl)	139.4	115.8	123.5	19.7	18.7	18
Total DNA(μg)	5.99	5.01	5.43	0.88	0.83	0.78
A_{260} / A_{280}	1.92	1.91	1.91	1.78	2.03	1.82
Brand Leader Q	**DH5a//TA**			**BL21/pET20b**		
Volume(μl)	44.5	44.5	45	46	44	45
DNA Concentration(μg/μl)	112.2	100.8	105.7	20.6	24.8	19.9
Total DNA(μg)	4.99	4.49	4.76	0.95	1.09	0.9
A_{260} / A_{280}	1.91	1.9	1.89	1.72	1.72	1.84



Reference: i) Birnboim, H. C., and Doly, J. (1979) Nucleic Acids Res. 7, 1513.
ii) Vogelstein, B., and Gillespie, D. (1979) Proc. Natl. Acad. Sci. USA 76, 615.

Note:
i) Actual yields depend on plasmid copy number, size of insert, host strain, culture medium and culture volume.
ii) Culture volumes depend on plasmid copy number, size of insert, host strain, culture medium .