

FastGene Plasmid Mini Kit



- High and low copy-plasmid DNA preparation kit
- Standard and Fast protocol
- LB tablets are included!!!



FastGene® Plasmid Mini Kits are designed for rapid small scale isolation and purification of high copy and low copy plasmid DNA. The ready-to-use plasmid DNA is of high quality in low-salt Tris buffer and suitable for typical downstream applications such as cloning, sequencing, PCR, transformation and restriction analysis.

Specifications

Parameter	High-copy Plasmid	Low-copy Plasmid
Max. sample volume	1-5 ml ON-culture	5-10 ml ON-culture
Typical yield	< 25 µg	< 25 µg
Elution volume	50 µl	50 µl
Binding capacity	40 µg	40 µg
Size of vector	< 15 kb	< 15 kb
Prep time	26 min / 12 preps	26 min / 12 preps
Format	spin column	spin column

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High yield - High purity - Fast preparation

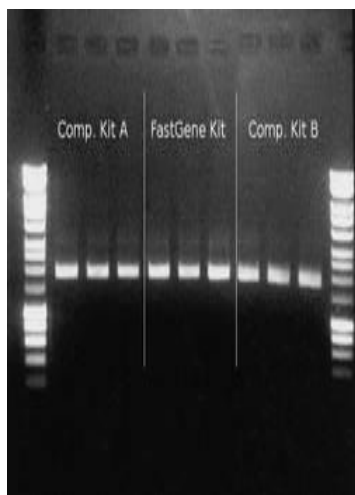
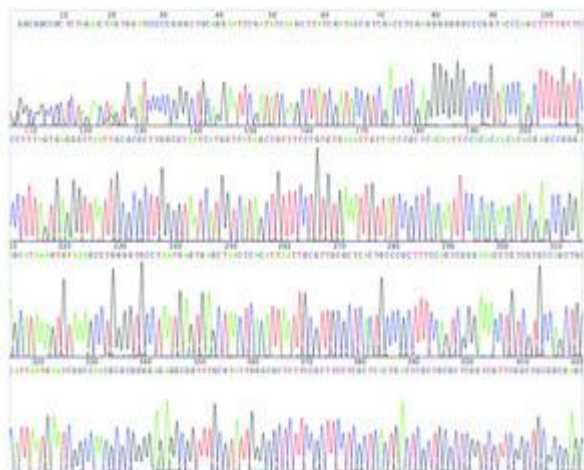

























Fig. 1: pBluescript plasmid DNA was isolated from a 1,4 ml E.coli culture (DH5 α in LB medium) according to the recommended procedures of different kits and eluted in 50 μ l elution buffer. 2 μ l of each eluate were loaded on a 0,7% TAE agarose gel.

The gel demonstrates that FastGene[®] Plasmid Mini Kits yield equal amount of plasmid DNA compared to other supplier with even more time consuming protocols. The preparation with the FastGene[®] Plasmid Mini Kit was performed by using the Fast Protocol.

Fig.2: Typical fluorescent capillary sequencing result from pBluescript plasmid DNA purified using the FastGene[®] Plasmid Mini Kit. Cycle sequencing reaction was performed on an ABI3100 sequencer. 1 μ l of purified plasmid DNA was used as a template. Dye terminators were removed by FastGene[®] Dye Terminator Removal Kit



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	High copy plasmid		Low copy plasmid
	Fast protocol	Standard protocol	Low copy protocol
Harvest of bacteria	 ON culture 1 - 3ml >10,000rpm ; 1min Remove the supernatant	 ON culture 1 - 5ml >10,000rpm ; 2min Remove the supernatant	 ON culture 5 - 10ml >10,000rpm ; 2min Remove the supernatant
Lysis	 200µl of mP1 : Vortexing 200µl of mP2 : Invert the tube 2min at room temperature 300µl of mP3 : Invert the tube	 200µl of mP1 : Vortexing 200µl of mP2 : Invert the tube 2min at room temperature 300µl of mP3 : Invert the tube	 400µl of mP1 : Vortexing 400µl of mP2 : Invert the tube 2min at room temperature 600µl of mP3 : Invert the tube
Lysate clarification	 13,000rpm ; 2min	 13,000rpm ; 2min	 13,000rpm ; 3min
Sample loading	 Load the supernatant 13,000rpm ; 30sec	 Load the supernatant 13,000rpm ; 30sec	 Load 750µl of the supernatant 13,000rpm ; 30sec } x2 times
Membrane washing	 150µl mP4 + 300µl mP5 13,000rpm ; 3min	 400µl of mP4 13,000rpm ; 30sec  600µl of mP5 13,000rpm ; 30sec	 400µl of mP4 13,000rpm ; 30sec  600µl of mP5 13,000rpm ; 30sec
Membrane drying	 13,000rpm ; 2min	 13,000rpm ; 2min	 13,000rpm ; 2min
Elution	 50µl of mP6 2min at room temperature 13,000rpm ; 2min	 50µl of mP6 2min at room temperature 13,000rpm ; 2min	 50µl of preheated (70°C) mP6 2min at room temperature 13,000rpm ; 2min

Ordering Information

Cat No	Description	Contents
P4-0502S (FG-94302)	Fastgene® Plasmid Mini Prep Trial Kit 4 Preps	Resuspension Buffer mP1 (2ml, RNase added), Lysis Buffer mP2 (2ml), Neutralisation Buffer mP3 (2ml), First Wash Buffer mP4 (2ml), Second Wash Buffer mP5 (1ml), Elution Buffer mP6 (1ml), 4 x Fastgene® Column Sets
P4-0502 (FG-90402)	Fastgene® Plasmid Mini Prep Kit 100 Preps	Resuspension Buffer mP1 (25ml), Lysis Buffer mP2 (25ml), Neutralisation Buffer mP3 (25ml), First Wash Buffer mP4 (40ml), Second Wash Buffer mP5 (25ml), Elution Buffer mP6 (10ml), Lyophilised RNase A (2.5mg), 100 x Fastgene® Column Sets
P4-0504 (FG-90502)	Fastgene® Plasmid Mini Prep Kit 300 Preps	Resuspension Buffer mP1 (65ml), Lysis Buffer mP2 (75ml), Neutralisation Buffer mP3 (100ml), First Wash Buffer mP4 (130ml), Second Wash Buffer mP5 (40ml), Elution Buffer mP6 (30ml), Lyophilised RNase A (6.5mg), 300 x Fastgene® Column Sets