

FastGene® Plasmid Mini Kit

High and low-copy plasmid DNA preparation kit



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: 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 samples	36 min / 12 samples
Format	spin column	spin column

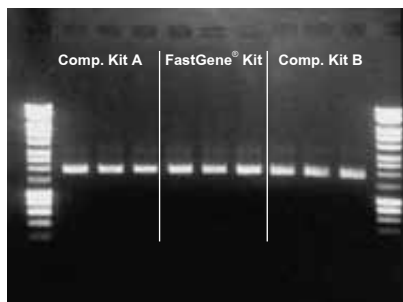


Fig. 1: pBluescript plasmid DNA was isolated from a 1.4 ml E. coli culture (DH5a in LB medium) according to the recommended procedures of the different kits and eluted in 50 µl elution buffer. 2 µl of each eluate were loaded on a 0.7% TAE agarose gel. FastGene® Plasmid Mini Kits yield an equal amount of plasmid DNA in a faster time compared to other suppliers.

The preparation with the FastGene® Plasmid Mini Kit was performed by using the Fast Protocol (right side).

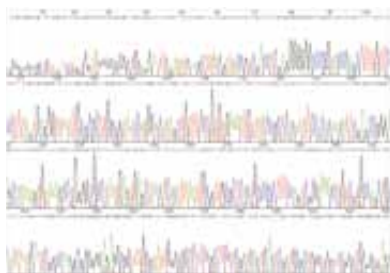


Fig.2: Typical fluorescent capillary sequencing result from pBluescript plasmid DNA purified using the FastGene® Plasmid Mini Kit. Cycle sequencing reaction was performed on an ABI3100 sequencer. 1 µl of purified plasmid DNA was used as a template. Dye terminators were removed by FastGene® Dye Terminator Removal Kit (see page 37).

One kit with all components




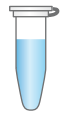
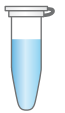
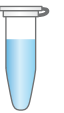
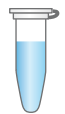
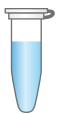
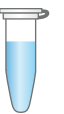




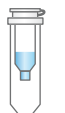

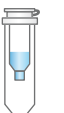

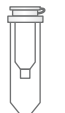
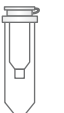
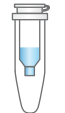
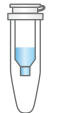
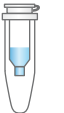
The FastGene® Plasmid Mini Kits are faster than competitors with comparable yield (see Fig. 1). This allows you to save time and perform downstream application quicker. **Additionally, each kit comes with ready-to-use LB-Broth capsules.** Hence, the kit includes everything that is needed for a plasmid preparation.



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Optimized Protocol For Fast Preparations

	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
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.:	Product	Content
FG-90402	FastGene® Plasmid Mini Kit	100 preps
FG-90502	FastGene® Plasmid Mini Kit	300 preps