

FastGene™ Plasmid Mini Kit



- ✓ High yields of plasmid DNA
- ✓ Cost effective preparations
- ✓ Optimum lysis and maximum DNA yield
- ✓ LB-Broth capsules included

One kit with all components

Each kit comes with ready-to-use LB-Broth capsules. Just add one LB-Broth capsule in 40 ml water, autoclave your solution and start your cloning experiment. Hence, the kit includes everything that is needed for a plasmid preparation.



Each Plasmid Mini Kit comes with the helpful LB-Broth capsules.

Ordering information

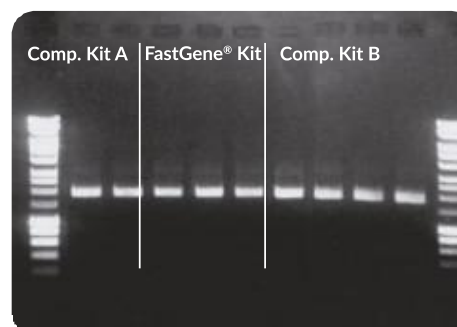
Cat. No.	Product	Content
FG-90402	FastGene® Plasmid Mini Kit	100 preps + 10 LB-Broth capsules
FG-90502	FastGene® Plasmid Mini Kit	300 preps + 10 LB-Broth capsules

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.

Fast protocol and high yield
























The FastGene® Plasmid Mini Kits are faster than competitors with comparable yield. This allows you to save time and perform downstream application quicker.



pBluescript plasmid DNA was isolated from a 1.4 ml *E. coli* culture 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).

FastGene™ Plasmid Mini Kit



	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 } ×2 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 ; 3min	 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

Specification

Parameter	High copy plasmid	Low copy plasmid
Max. sample volume	1-5 ml over-night culture	5-10 ml over-night 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