PureLink® HiPure Expi Gigaprep Kit



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\bigcirc	Package Contents	Catalog Numbers K210009XP	Amount: 2 preps
	Storage Conditions	 Store all components at room temperature. 	
	Required Materials	 Vacuum source equipped with regulator (capable of-600 to -800 mbar) Appropriately sized tubes and bottles 1000-mL Stericup® Receiver flask 250-mL Stericup® Receiver flask Centrifuge and rotor capable of >12,000 x g at 4°C 	
	Timing	Bacterial culture: overnight Purification: 90 minutes	
Å	Selection Guide	Go online to view related products: PureLink® Nucleic Acid Purification Kits Expi293™ Expression System	
	Product Description	 large quantities of transpective exchange resin. The kit is without centrifugation i The PureLink® HiPure E ultrapure plasmid DNA bacterial culture. High Yield–Isolate over 	xpi Gigaprep Kit provides users with the ability to isolate fection-grade plasmid DNA using an enhanced anion ncludes filtration columns to provide bacterial filtration n a single unit. Typi Gigaprep Kit typically isolates 12 mg of high quality, with inherently low endotoxin levels from 2.5 L of '14 mg of high quality plasmid DNA from a single bacterial culture volume.
		 Purity – Low endotoxin for mammalian cell tran 	levels (0.1–1.0 EU/µg), and A260/280 >1.8, making it ideal sfection.
	Important Guidelines	 label). Indicate that RNa If precipitate is observed bath until the solution c Grow transformed <i>E. co.</i> L (low copy number pla Do not over-dry DNA. I 	uspension Buffer (R3) and mix well (see instructions on se A has been added on the bottle label. Store at 4°C. d in the Lysis Buffer (L7), warm the buffer in a 37°C water lears. Swirl contents gently to resuspend. <i>ii</i> in LB medium. Use 2.5 L (high copy number plasmid) or5 smid) of an overnight culture. f the DNA pellet is difficult to resuspend, allow the pellet for a longer period of time.
()	Online Resources	Visit our product page for information and protocols. visit www.lifetechnologies	For support,

For Research Use Only. Not for use in diagnostic procedures.

Gigaprep Plasmid Isolation Protocol

Steps		Procedure Details	
1	Harvest	1. Sediment cells by centrifugation at 4,000 × g for 15 min at 4°C. Discard all medium.	
2	Resuspend	2. Add 125 mL Resuspension Buffer (R3) with RNase A to the cell pellet and resuspend the pellet until it is homogeneous.	
3	Lyse	 Add 125 mL Lysis Buffer (L7). Mix gently by inverting the capped tube until the mixture is homogeneous. Do not vortex. Incubate at room temperature for 5 minutes. 	
4	Precipitate	4. Add 125 mL Precipitation Buffer (N3). Mix immediately by inverting the tube until the mixture is homogeneous. Do not vortex.	
5	Clarify	5. Pour the lysate into a lysate filtration cartridge attached to a receiver flask . Incubate for 5 minutes. Connect a vacuum source and filter the lysate.	
6	Wash	 Add 50 mL Wash Buffer (W8) to the filtration cartridge and gently stir precipitate with a spatula. Apply vacuum. The clarified lysate contains the plasmid DNA. 	
7	Equilibrate	 Add 200 mL Equilibration Buffer (EQ1) to a DNA-binding cartridge attached to a receiver flask. Connect a vacuum source and drain the cartridge. 	
8	Bind	8. Load the clarified lysate (from step 6) onto the DNA-binding cartridge. Apply vacuum and drain solution.	
9	Wash	 Add 275 mL Wash Buffer (W8) and apply vacuum. Repeat wash step. Attach DNA-binding cartridge to a new receiver flask. 	
10	Elute	10. Add 100 mL Elution Buffer (E4) to the DNA-binding cartridge. Apply soft vacuum (-100 to -200 mbar) and draw 30-40 mL of solution. Stop the vacuum and incubate for 1 minute. Apply vacuum to all the liquid has passed from the cartridge.	
11	Precipitate and Wash	11. Add 0.7 volume of isopropanol to the eluate. Mix well. Centrifuge at >12,000 × g for 30 minutes at 4°C. Remove and discard the supernatant. Wash the DNA pellet in 20 mL 70% ethanol. Centrifuge at >12,000 × g for 10 minutes at 4°C. Remove the supernatant.	
12	Resuspend	12. Air-dry the pellet for 10 minutes, then resuspend the purified plasmid DNA in TE Buffer (TE). Store plasmid DNA at -20°C.	

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