

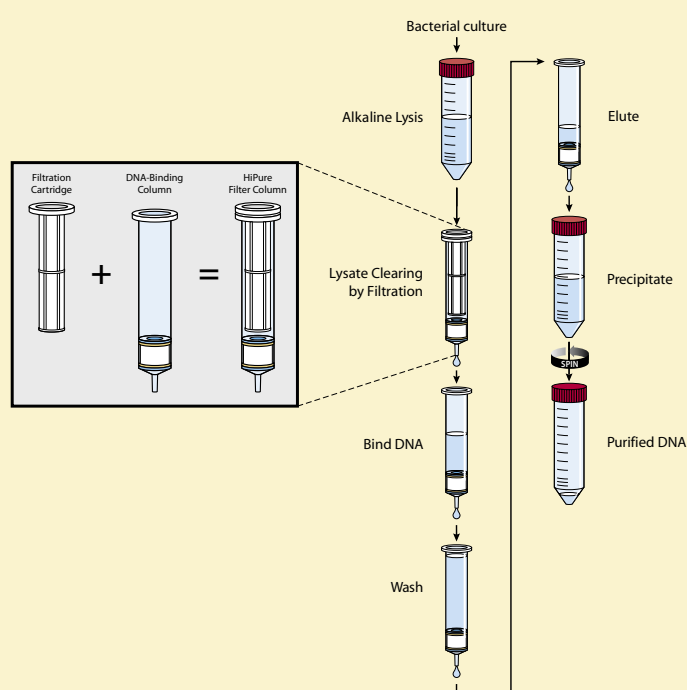
## Maximize your large-scale plasmid DNA purification

- **Simplified protocols**—efficient clearing of bacterial lysates, without centrifugation or syringe pressure
- **Higher yields**—PureLink™ Midiprep and Maxiprep Kits are designed to maximize plasmid DNA recovery
- **Faster results**—sample clarification and column loading are combined in a single, time-saving step
- **Ultrapure DNA**—optimal for transfection, *in vivo* translation, transcription, and enzyme modifications

### Easy-to-use protocol

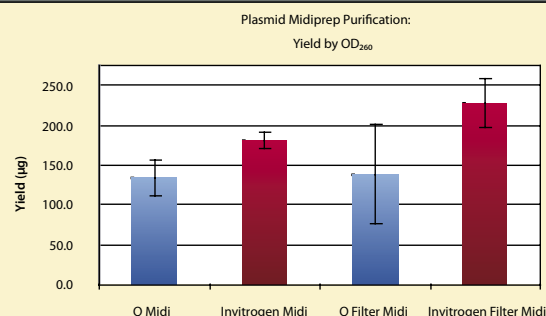
PureLink™ HiPure Filter Plasmid Kits combine a unique bacterial lysate filtration system with our patented PureLink™ HiPure anion-exchange resin column to improve both speed and performance of the purification process (Figure 1). Lysate clarification and column loading occur simultaneously, minimizing valuable hands-on time and significantly improving plasmid yields (Figures 2 and 3).

**Figure 1—The PureLink™ HiPure Plasmid Filter Kit procedure with lysate filtration cartridge**



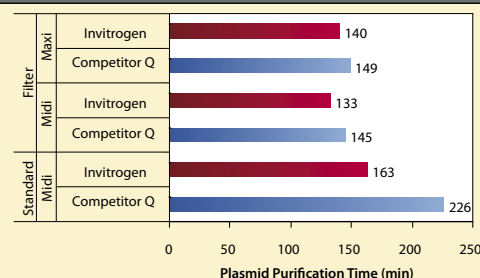
The procedure employs a modified alkaline lysis and neutralization step, followed by ion-exchange chromatography. With the addition of the ready-to-use HiPure Filter Columns to the PureLink™ HiPure Plasmid Kits, the bacterial lysate is rapidly cleared by gravity flow without the need for centrifugation, force, or syringe plungers. A single wash step removes impurities which is followed by elution and a precipitation step, producing ultrapure plasmid DNA.

**Figure 2—Significantly increased yield using the HiPure Filter Columns**



PureLink™ HiPure column configuration and resin composition ensures significantly greater binding capacity compared to other anion-exchange based kits. HiPure Filters improve bacterial debris removal and sample recovery. Actual yield depends on plasmid copy number, host strain, culture media, and volume.

**Figure 3—Faster results with the HiPure Filter Columns**



The addition of the HiPure Filter Column reduces preparation time by up to 30 min compared to the original PureLink™ Plasmid Purification Kits or an equivalent competitor kit. Total time of plasmid purification was measured from start of lysis to completion of the elution step with 90 min uniformly added to account for time needed for bacterial harvesting, resuspension of the bacterial pellet, and DNA precipitation following elution.

**PureLink™ HiPure Plasmid Filter Kits employ a unique anion-exchange resin technology that provides:**

- Significantly greater plasmid yields compared to most commercially available kits (Table 1)
- DNA purity equivalent to, or superior than, 2X CsCl gradient centrifugation
- Ultra-low endotoxin levels without the need for additional steps (and associated additional expense) required by other kits

Table 1—PureLink™ HiPure Plasmid Filter Kits outperform the competition				
	HiPure Filter Midiprep	Q Filter Midiprep	HiPure Filter Maxiprep	Q Filter Maxiprep
Culture volume	25–100 ml	25–50 ml	100–500 ml	100–250 ml
Expected DNA yield*	100–350 µg	up to 100 µg	200–850 µg	up to 500 µg
Endotoxin levels	0.1–1.0 EU/µg	~10 EU/µg	0.1–1.0 EU/µg	~10 EU/µg
Purity	≥2X CsCl	≥2X CsCl	≥2X CsCl	≥2X CsCl
A <sub>260/280</sub>	1.8–2.0	1.8–2.0	1.8–2.0	1.8–2.0
Recovery	90–95%	90–95%	90–95%	90–95%

\* Yields vary with plasmid copy number, plasmid type, bacterial strain, and bacterial growth conditions.

## Ordering information

For superior plasmid purification, order PureLink™ HiPure Plasmid Kits today.

Product	Quantity	Cat. no.
PureLink™ HiPure Plasmid Filter Midiprep Kit	25 preps	K2100-14
	50 preps	K2100-15
PureLink™ HiPure Plasmid Filter Maxiprep Kit	10 preps	K2100-16
	25 preps	K2100-17
<b>Additional PureLink™ HiPure Plasmid Purification Products</b>		
PureLink™ HiPure Plasmid Miniprep Kit	25 preps	K2100-02
	100 preps	K2100-03
PureLink™ HiPure Plasmid Midiprep Kit	25 preps	K2100-04
	50 preps	K2100-05
PureLink™ HiPure Plasmid Maxiprep Kit	10 preps	K2100-06
	25 preps	K2100-07
PureLink™ HiPure Plasmid Megaprep Kit	4 preps	K2100-08
PureLink™ HiPure Plasmid Gigaprep Kit	2 preps	K2100-09
PureLink™ Nucleic Acid Purification Rack	1 rack	K2100-13
PureLink™ HiPure BAC Buffer Kit	1 kit	K2100-18

Learn more about Invitrogen's complete line of nucleic acid purification solutions online at [www.invitrogen.com/naprep](http://www.invitrogen.com/naprep).

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