

AccuPrep[®] Nano-Plus

Rapid Plasmid Purification—high yield, ultrapure

Bioneer introduces *AccuPrep* Nano-Plus plasmid extraction kits—the first in a series of unique and revolutionary nucleic acid purification kits that maximize DNA purity, improve yield and significantly reduce prep time—while minimizing costs.

AccuPrep Nano-Plus kits are available in Mini, Midi and Maxi formats. A centrifuge can be used to purify plasmid DNA with our Nano-Plus kits, and, thanks to our Nano-Plus technology (see below), we are significantly faster than other spin column based kits. However, Nano-Plus can also be used in concert with our unique AccuCap for even faster isolation using a standard laboratory air pressure system (> 40 psi) or an air pump (compressor).

Bioneer's Nano-Plus plasmid extraction kits were designed to improve quality and significantly accelerate the isolation of highly purified plasmid DNA from cultured bacterial cells. Nano-Plus kits combine alkaline lysis and novel nano technology available only from Bioneer. Pelleted bacterial cells are resuspended and treated with a proprietary Nano Solution. Following the addition of Lysis Buffer and Neutralization Buffer to the lysate, the chromosomal DNA and cell debris form an insoluble aggregate. Bioneer's Nano Solution effectively drives improved aggregation, while increasing the total weight of the complex and significantly reducing the centrifugation time to clear the lysate. The results are higher quality DNA with considerably reduced prep time.



Nano-Plus Kit	Yield	Prep Time (Centrifuge)	Prep Time (Air Pressure)
Mini	20 µg	< 10 minutes	-
Midi	100 µg	< 40 minutes	< 30 minutes
Maxi	500 µg	< 60 minutes	< 45 minutes

Features and Benefits

Significantly faster prep time

High nucleic acid purity

High yield

Unique AccuCap design

Mini, Midi and Maxi versions

Competitive pricing

Get more work done!

Works for all downstream applications.

More DNA.

Allows isolation utilizing any lab air pressure system (> 40 psi) or an air pump.

Standard formats for any need.

Great value for any lab.

Experimental Results

Fig 1. Preparation time comparison between AccuPrep Nano-Plus Mini, Midi, and Maxi kits versus competitors.

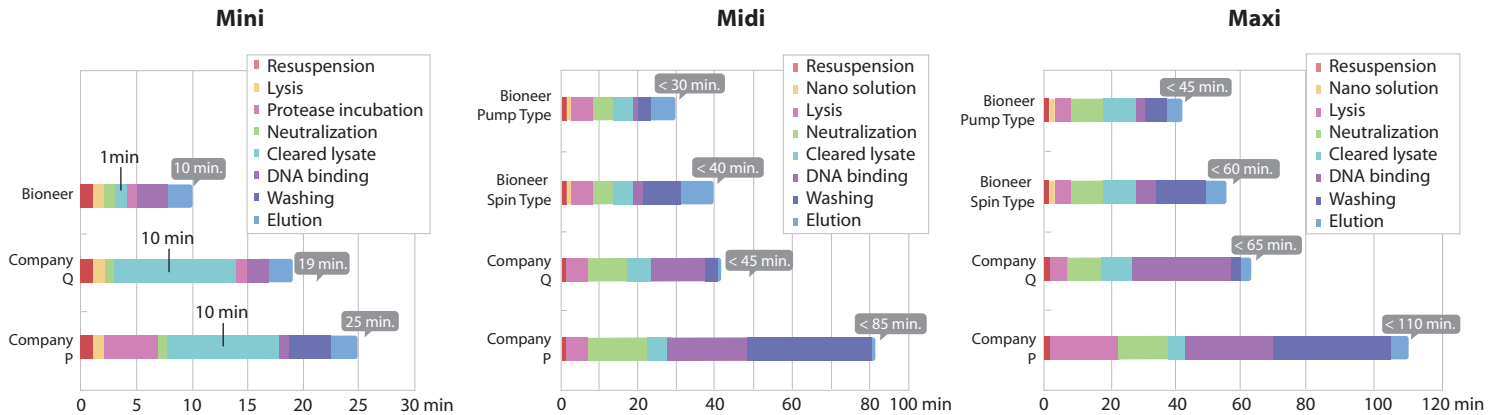
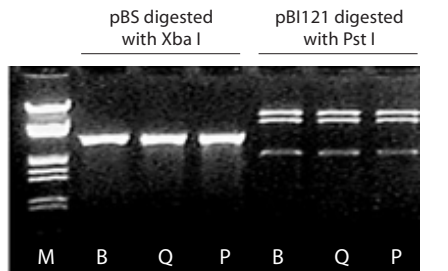
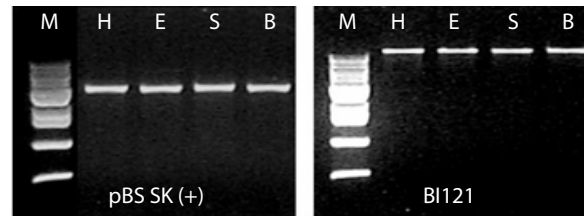


Fig 2. Comparison of high- and low-copy plasmid DNA digestion. DNA was isolated with AccuPrep Nano-Plus and 2 competitor kits, and then digested with restriction enzymes.



Lane M: Lambda/HindIII + EcoR I Marker (D-1070)
Lane B: AccuPrep Nano-Plus Plasmid Mini Extraction Kit
Lane Q & P: Competitors

Fig 3. High- and low-copy plasmid DNA purified with AccuPrep Nano-Plus Kit and digested with restriction enzymes.



M: 1 kb DNA Ladder (D-1040)
Lane H: Plasmid digested with Hind III
Lane E: Plasmid digested with EcoR I
Lane S: Plasmid digested with Sma I
Lane B: Plasmid digested with BamH I

Try before you buy!

Visit <http://us.bioneer.com/sample> and qualify for a free sample from our AccuPrep Nano-Plus kits. In addition, if you respond to a short survey after you try our product, you can take 50% off your first order!

Ordering Information

Product Description	Reactions	Cat. No.	Price
AccuPrep Nano-Plus Mini Extraction Kit	200	K-3111	\$215.00
	50	K-3112	65.00
AccuPrep Nano-Plus Midi Extraction Kit	25	K-3122	195.00
AccuPrep Nano-Plus Maxi Extraction Kit	25	K-3131	430.00
	10	K-3132	185.00

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