

BluePippin™ DNA size selection system



18-27 kb DNA target collection for mate-pair libraries

BluePippin mid-range gel cassettes collect DNA in sizes that can be very useful for mate-pair library construction. For researchers who desire larger circularized molecules, the Blue provides high-quality DNA with nicely sized distributions, in a reproducible manner.

The data presented here are results from validation studies of the BluePippin dye-free mid-range gel cassettes (part no. BMF7510). Collected target DNA was run on agarose slab gels and analyzed using TotalLab Quant™ software. Five replicate samples were collected at four target size ranges. Another test determined intrinsic recovery by collecting the DNA bands of a reference ladder, and comparing the input amounts to the collected amount.

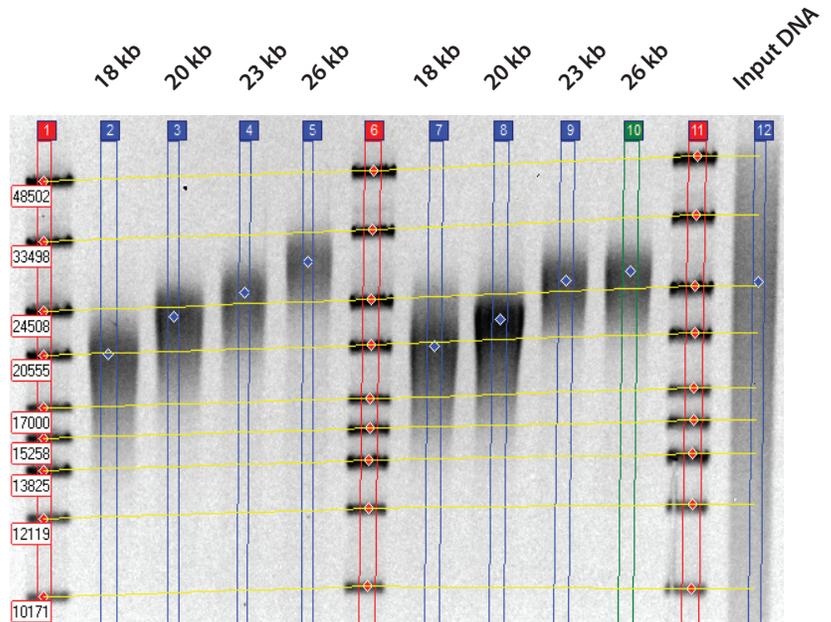


Figure 1. A TotalLab Quant™ gel image of the analysis of 2 sets of replicates. The input DNA was run in the rightmost lane.



The Blue Pippin system is an automated preparative electrophoresis platform designed to save scientists time and money in DNA size selection. The platform uses optical fluorescence detection of DNA gel separations to automatically collect size-selected fragments directly into buffer. Fragments are collected with much higher accuracy and reproducibility than other methods, with no contamination.

Target (bp)	Gel Analysis Size (bp)	Min. Size Distribution (%CV)
18000	18163	16
20000	20617	15
23000	23660	14
26000	26148	16

Table 1. Average analyzed size and %CV of 5 replicate samples.

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