

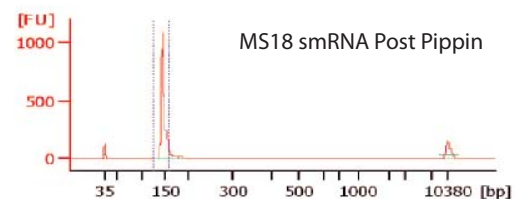
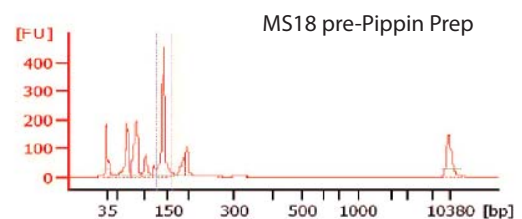
miRNA Isolation: Accurate. Reproducible. Easy.




Automated DNA Size Selection

MiRNA libraries are especially tricky to extract from gels because the band of interest is near other bands containing unwanted products that adversely affect the quality of the sequencing run. The Pippin Prep and BluePippin isolate and collect miRNA reliably: sample-to-sample and run-to-run.

1. Enter a base pair range in software
2. Load samples onto a pre-cast agarose gel cassette
3. At the end of the run, collect the miRNA with a pipettor





Pippin Prep™
Collect targets between
50 bp – 1.5 kb

BluePippin™
Collect targets between
50 bp – 50 kb

The Pippin system is an automated gel electrophoresis platform designed to save scientists time and money in DNA size selection. The platform uses optical fluorescence detection of DNA separations to automatically collect size-selected fragments from pre-cast agarose gel cassettes.

Data Summary					
Pre-Pippin dil x10	ms18	ms19	ms20	ms21	ms22
ave size	142	141	141	140	140
[pg/ul]	580	609	563	727	227
%CV	4	4.4	4.5	4.3	5.6
smRNA Lib Post Pippin	ms18	ms19	ms20	ms21	ms22
ave size	147	145	145	144	145
[pg/ul]	1370	1307	1575	1924	698
%CV	3.2	3.4	3.6	3.4	3.5
% recovery	24%	21%	28%	26%	31%

“When we run these out on the Pippin Prep, we’re getting exactly what we hope to receive. I can have different technicians do the same procedure and essentially get the same band or answer back when they’re processing samples.”

Figure. Examples of Bioanalyzer traces showing an miRNA library sample before and after isolation on a Pippin Prep. **Table.** Summary of isolation data of a number of runs. Data is courtesy of The DNA Facility at the University of Iowa.

— Dr. Kevin Knudston,
DNA Facility at the University of Iowa



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