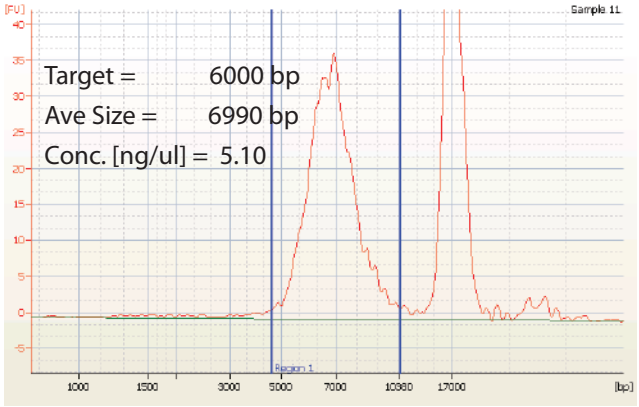
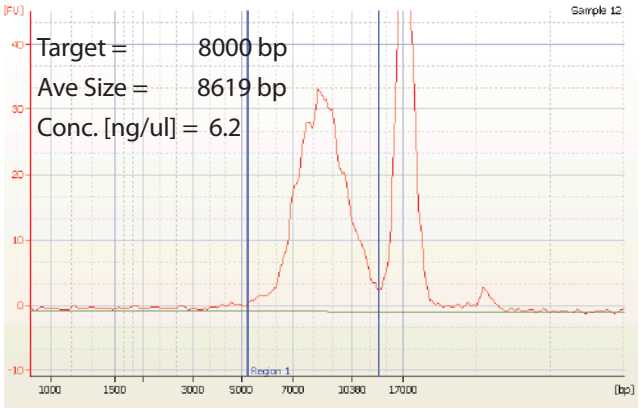




** These data are not intended to imply guaranteed results or performance. This product is intended to demonstrate that the Pippin Prep is functioning as expected, and that proper operational technique is being used. Users should refer to the Operations Manual for performance specifications.*

Sage Science, Inc.
Suite 2400, 500 Cummings Center
Beverly, MA 01915
support@sagescience.com
978.922.1832

Control DNA

For Testing and Validation of 0.75% Agarose Gel Cassettes

collects targets between 1 kb - 10 kb

0.75%

Item# CON7504

For:

BluePippin™

BLF7510 Gel Cassettes

sage science

What is Enclosed

Pippin cassettes and instruments are functionally tested using restriction digests of genomic DNA from E. coli. For each cassette type, a different restriction digest is used, chosen so that size distribution of the digested DNA closely matches the useful fractionation range of the cassette, without any significant peaks or discontinuities. Following restriction digestion, the control DNA is purified by phenol:chloroform extraction, dialyzed, and diluted into Pippin Prep electrophoresis buffer (without ethidium bromide). The DNA is premixed with Pippin loading solution and is provided ready for loading – no additional loading solution should be added. The DNA concentration is 5 micrograms per 40 microliters. 40 microliters of control DNA should be used per lane. Each tube contains sufficient volume for 16 sample loads.

Control DNA is useful to test, refine, and troubleshoot Pippin size fractionation protocols. It can also be used to check system performance.

To Use

1. Carefully follow sample load instructions outlined in the Operations Manual.
2. Pippette 40 µl of Control DNA into a sample well

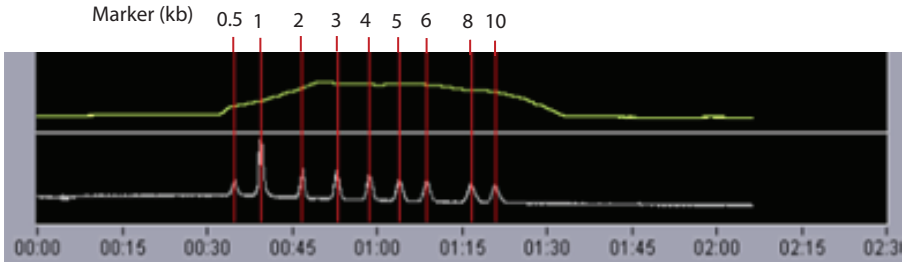
QC protocol for 0.75% agarose cassettes

Cassettes are tested using "Tight" mode atwith the following target values. Extracted samples are run an Agilent Bioanalyzer using a DNA 12000 chip. The analysis volume is 1 µl from a 40 µl elution volume (1:40 dilution).

	Tight	Range	Time	Peak	Ref	Off	BP Target	BP Start	BP End	BP Pause
5							8000	5436	10564	0
4							6000	4094	7906	0
3							4000	2669	5331	0
2							2000	1270	2730	0
1							0	0	0	0

Typical Results

Users should expect to see significant signal from the control DNA in a profile illustrated below.



The following bioanalyzer results indicate typical results from QC testing.