

*\* 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.*

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# Control DNA

For Testing and Validation of  
 2% Agarose Gel Cassettes

collects targets between 100 bp - 600 bp

# 2%

Item# CON2004

For:

**Pippin Prep™**  
 CSD2010 Gel Cassettes



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## What is Enclosed

Pippin Prep 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 Prep 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 Prep 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. Pipette 40  $\mu$ l of Control DNA into a sample well

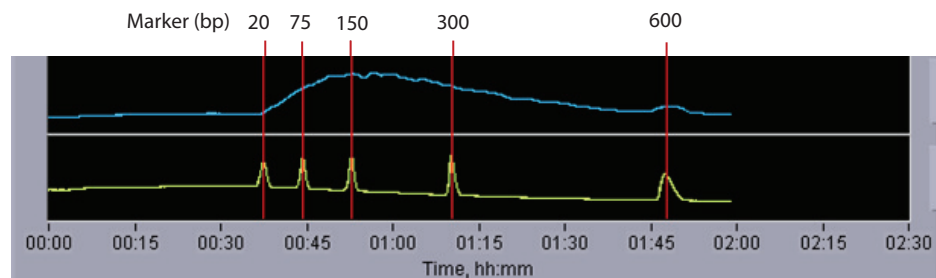
## QC protocol for 2% agarose cassettes

Cassettes are tested using "Tight" mode with the following target values. Extracted samples are run on an Agilent Bioanalyzer using a DNA 1000 chip. The analysis volume is 1  $\mu$ l from a 40  $\mu$ l elution volume (1:40 dilution).

	Tight	Range	Time	Peak	Ref	Off	BP Target	BP Start	BP End	BP Pause
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	500	460	540	0
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	400	368	432	0
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	275	253	297	0
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	150	138	162	0
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 show typical results from QC testing.

