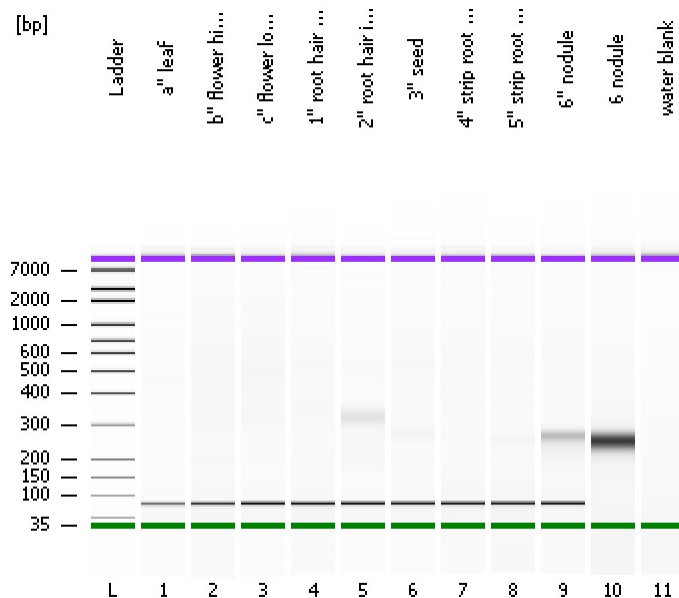


Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
Modified: 9/29/2010 3:10:44 PM

Electrophoresis File Run Summary



Instrument Information:

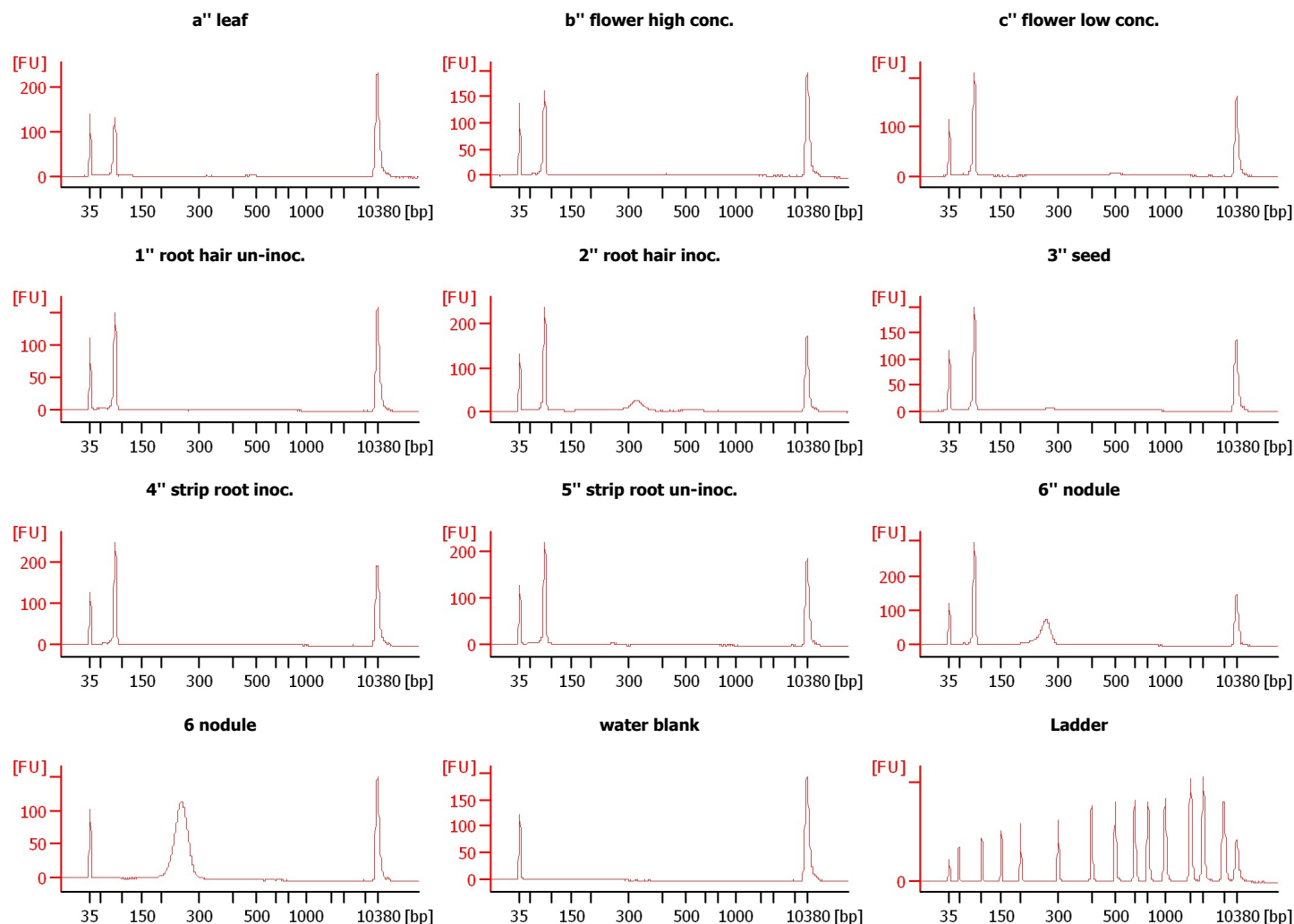
Instrument Name: Ann's baby
Serial#: DE24802235
Firmware: C.01.069
Type: G2938B

Assay Information:

Assay Origin Path: D:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.0
Assay Comments: Copyright © 2003-2009 Agilent Technologies

Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
Modified: 9/29/2010 3:10:44 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
a" leaf		☐	✓			
b" flower high conc.		☐	✓			
c" flower low conc.		☐	✓			
1" root hair un-inoc.		☐	✓			
2" root hair inoc.		☐	✓			
3" seed		☐	✓			
4" strip root inoc.		☐	✓			
5" strip root un-inoc.		☐	✓			
6" nodule		☐	✓			
6 nodule		☐	✓			
water blank		☐	✓			

Chip Lot #**Reagent Kit Lot #****Chip Comments :**

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
Modified: 9/29/2010 3:10:44 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

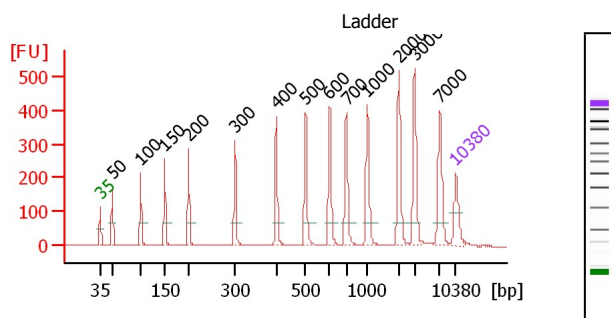
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary



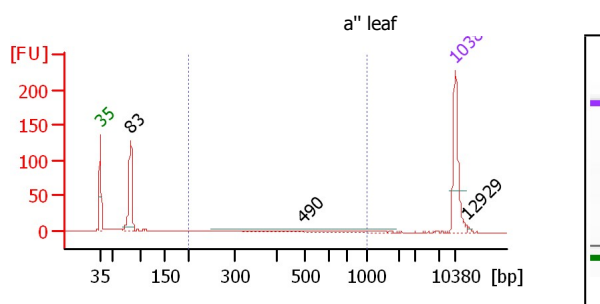
Overall Results for Ladder

Noise: 0.2

Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker



Overall Results for sample 1 : a'' leaf

Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 79.9

Region table for sample 1 : a'' leaf

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	79.9	20	473	37.0	36.07	139.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

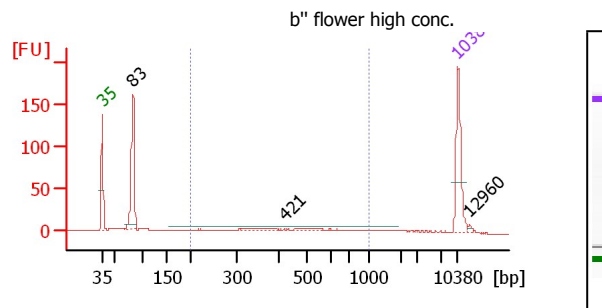
Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 1 :

a" leaf

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	83	138.86	2,539.9	
3	490	17.53	54.2	
4	10,380	75.00	10.9	Upper Marker
5	12,929	0.00	0.0	



Overall Results for sample 2 : b" flower high conc.

Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 172.6

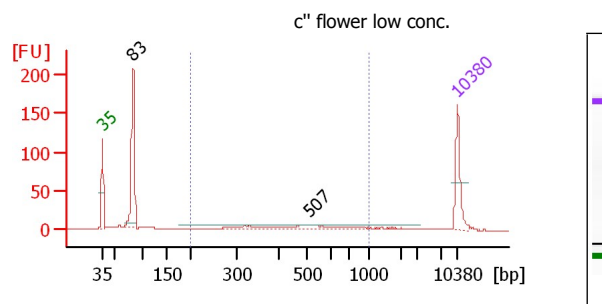
Region table for sample 2 : b" flower high conc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	172.6	29	467	39.5	96.58	390.7	Blue

Peak table for sample 2 :

b" flower high conc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	197.26	3,596.8	
3	421	48.14	173.4	
4	10,380	75.00	10.9	Upper Marker
5	12,960	0.00	0.0	



Overall Results for sample 3 : c" flower low conc.

Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 184.5

Region table for sample 3 : c" flower low conc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	184.5	29	482	37.0	131.78	503.0	Blue

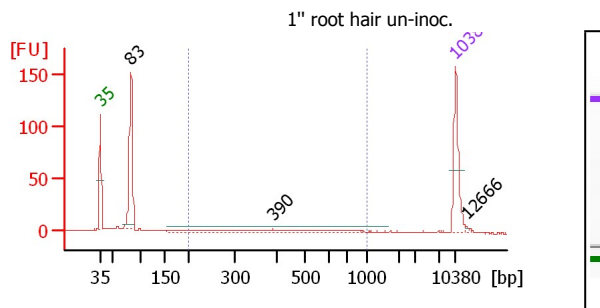
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 3 : c'' flower low conc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	83	325.36	5,907.2	
3	507	76.88	230.0	
4	10,380	75.00	10.9	Upper Marker



Overall Results for sample 4 : 1'' root hair un-inoc.

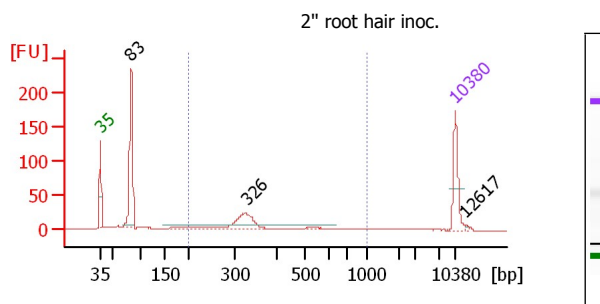
Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 86.6

Region table for sample 4 : 1'' root hair un-inoc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	86.6	21	478	37.6	61.71	239.0	Blue

Peak table for sample 4 : 1'' root hair un-inoc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	226.50	4,130.2	
3	390	48.27	187.5	
4	10,380	75.00	10.9	Upper Marker
5	12,666	0.00	0.0	



Overall Results for sample 5 : 2'' root hair inoc.

Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 258.2

Region table for sample 5 : 2'' root hair inoc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	258.2	35	384	40.0	179.56	824.3	Blue

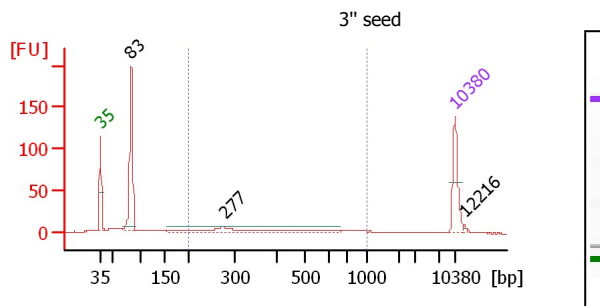
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 5 : 2" root hair inoc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	83	320.53	5,841.1	
3	326	123.73	574.6	
4	10,380	75.00	10.9	Upper Marker
5	12,617	0.00	0.0	



Overall Results for sample 6 : 3" seed

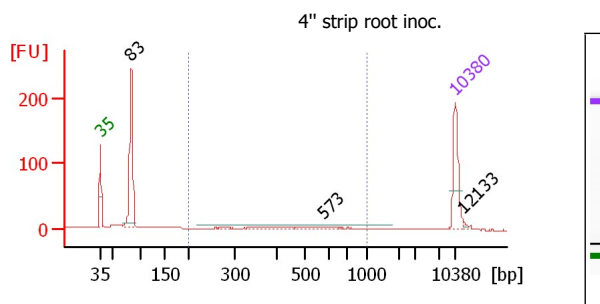
Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 137.6

Region table for sample 6 : 3" seed

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	137.6	25	445	42.3	111.11	476.9	Blue

Peak table for sample 6 : 3" seed

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	316.77	5,752.7	
3	277	69.77	381.6	
4	10,380	75.00	10.9	Upper Marker
5	12,216	0.00	0.0	



Overall Results for sample 7 : 4" strip root inoc.

Number of peaks found: 3
 Noise: 0.1
 Corr. Area 1: 111.2

Region table for sample 7 : 4" strip root inoc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	111.2	18	496	38.4	60.67	231.2	Blue

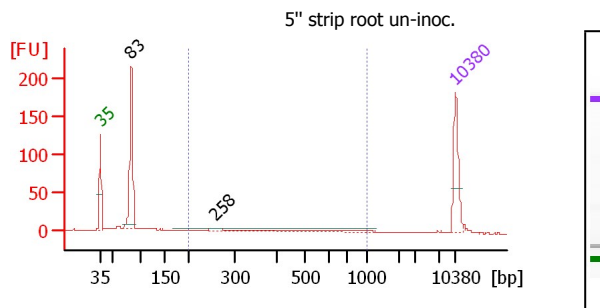
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 7 : 4" strip root inoc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	83	267.90	4,871.7	
3	573	27.43	72.5	
4	10,380	75.00	10.9	Upper Marker
5	12,133	0.00	0.0	



Overall Results for sample 8 : 5" strip root un-inoc.

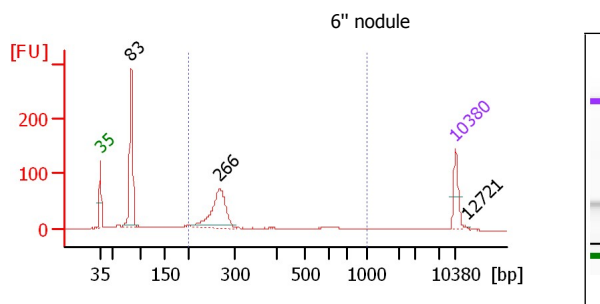
Number of peaks found: 2
 Noise: 0.2
 Corr. Area 1: 79.1

Region table for sample 8 : 5" strip root un-inoc.

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	79.1	16	474	41.3	48.02	198.3	Blue

Peak table for sample 8 : 5" strip root un-inoc.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	83	256.80	4,664.4	
3	258	51.91	304.8	
4	10,380	75.00	10.9	Upper Marker



Overall Results for sample 9 : 6" nodule

Number of peaks found: 3
 Noise: 0.2
 Corr. Area 1: 478.7

Region table for sample 9 : 6" nodule

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	478.7	44	326	45.5	414.59	2,234.8	Blue

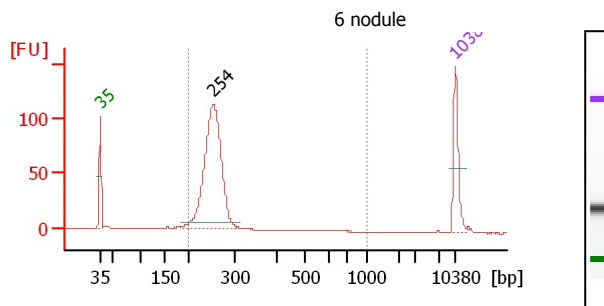
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 9 : 6" nodule

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	83	470.92	8,559.4	
3	266	306.65	1,746.7	
4	10,380	75.00	10.9	Upper Marker
5	12,721	0.00	0.0	



Overall Results for sample 10 : 6 nodule

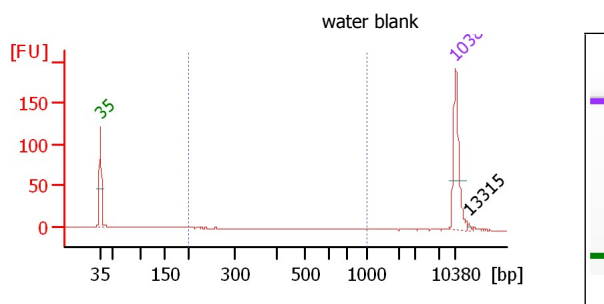
Number of peaks found: 1
 Noise: 0.1
 Corr. Area 1: 679.1

Region table for sample 10 : 6 nodule

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	679.1	94	254	10.8	576.55	3,459.9	Blue

Peak table for sample 10 : 6 nodule

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	254	561.66	3,353.3	
3	10,380	75.00	10.9	Upper Marker



Overall Results for sample 11 : water blank

Number of peaks found: 1
 Noise: 0.2
 Corr. Area 1: 0.1

Region table for sample 11 : water blank

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	0.1	0	212	0.3	0.06	0.4	Blue

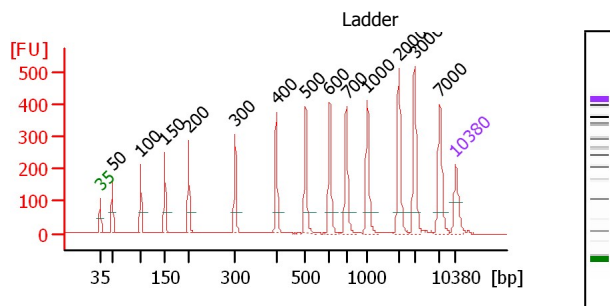
Assay Class: High Sensitivity DNA Assay
 Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
 Modified: 9/29/2010 3:10:44 PM

Electropherogram Summary Continued ...

Peak table for sample 11 : water blank

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker
3	13,315	0.00	0.0	



Overall Results for Ladder

Noise:

0.2

Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: D:\...gh Sensitivity DNA Assay_DE24802235_2010-09-29_14-12-57.xad

Created: 9/29/2010 2:12:57 PM
Modified: 9/29/2010 3:10:44 PM

Gel Image