

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2011-11-28_007.xad

Created: 11/28/2011 4:36:31 PM
Modified: 12/21/2012 12:15:52 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

Monster Library

R1 I.Henry

Melon1

Melon2

Melon3

Melon4

Melon5

Melon6

DH4 Carrot

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Monster Library		<input type="checkbox"/>				
R1 I.Henry		<input type="checkbox"/>				
Melon1		<input type="checkbox"/>				
Melon2		<input type="checkbox"/>				
Melon3		<input type="checkbox"/>				
Melon4		<input type="checkbox"/>				
Melon5		<input type="checkbox"/>				
Melon6		<input type="checkbox"/>				
DH4 Carrot		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 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

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Electropherogram Summary

Ladder



Overall Results for Ladder

Noise: 0.1

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
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

Monster Library



Overall Results for sample 1 : Monster Library

Number of peaks found: 39 Corr. Area 1: 1,028.5
Noise: 0.8

Peak table for sample 1 : Monster Library

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	56	21.39	573.8	
3	205	5.83	43.0	
4	211	7.64	55.0	
5	253	19.96	119.6	
6	275	50.17	276.2	
7	286	36.46	193.5	
8	319	42.20	200.5	
9	331	60.58	277.1	
10	352	19.57	84.3	
11	362	16.86	70.5	
12	370	22.28	91.3	
13	386	20.53	80.6	
14	412	29.51	108.5	
15	461	95.16	313.1	
16	491	39.76	122.6	
17	505	34.39	103.2	
18	527	39.02	112.2	
19	539	37.40	105.1	
20	556	39.03	106.3	
21	575	130.53	344.0	
22	709	11.68	24.9	
23	771	15.47	30.4	
24	904	7.88	13.2	
25	966	5.15	8.1	
26	1,028	6.40	9.4	

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Electropherogram Summary Continued ...

... Peak table for sample 1 : Monster Library

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	1,198	4.69	5.9	
28	1,353	4.97	5.6	
29	1,693	5.26	4.7	
30	1,834	3.84	3.2	
31	1,919	3.93	3.1	
32	2,236	5.03	3.4	
33	2,587	3.34	2.0	
34	2,911	6.17	3.2	
35	3,947	4.43	1.7	
36	6,035	2.24	0.6	
37	7,770	1.52	0.3	
38	9,390	4.40	0.7	
39	▶ 10,380	75.00	10.9	Upper Marker
40	12,495	0.00	0.0	
41	13,530	0.00	0.0	

Region table for sample 1 : Monster Library

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	466	3,643.1	960.11	1,028.5	81	32.4	■

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Electropherogram Summary Continued ...

R1 I.Henry





Overall Results for sample 2 : R1 I.Henry

Number of peaks found: 9 Corr. Area 1: 1,094.5
 Noise: 0.4 Corr. Area 2: 45.5

Peak table for sample 2 : R1 I.Henry

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	337	437.10	1,966.5	
3	355	149.34	636.9	
4	379	103.16	412.3	
5	386	96.06	376.8	
6	402	106.82	402.9	
7	412	121.46	446.8	
8	442	246.85	845.4	
9	519	186.65	544.6	
10	673	13.97	31.5	
11	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : R1 I.Henry

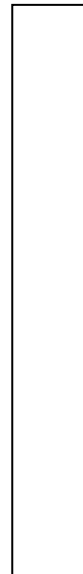
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
231	1,406	435	7,061.5	1,844.95	1,094.5	93	31.0	
1,375	8,453	3,920	27.6	56.23	45.5	4	49.5	

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Electropherogram Summary Continued ...

Melon1



Overall Results for sample 3 : Melon1

Number of peaks found: 15 Corr. Area 1: 4,705.2
 Noise: 0.3

Peak table for sample 3 : Melon1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	414	6,047.78	22,144.7	
3	448	2,300.35	7,782.6	
4	473	5,250.03	16,831.4	
5	847	114.59	205.1	
6	1,648	714.21	656.8	
7	1,976	380.06	291.5	
8	2,192	156.42	108.1	
9	2,680	188.61	106.6	
10	3,570	469.34	199.2	
11	4,885	341.70	106.0	
12	7,205	193.47	40.7	
13	10,380	75.00	10.9	Upper Marker
14	12,093	0.00	0.0	
15	14,182	0.00	0.0	
16	15,686	0.00	0.0	
17	16,731	0.00	0.0	

Region table for sample 3 : Melon1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	456	53,217.9	15,014.81	4,705.2	81	23.3	■

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Electropherogram Summary Continued ...

Melon2



Overall Results for sample 4 : Melon2

Number of peaks found: 9 Corr. Area 1: 5,728.0
 Noise: 1.1

Peak table for sample 4 : Melon2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	366	1,861.36	7,698.8	
3	392	516.13	1,993.4	
4	413	1,464.53	5,373.3	
5	1,773	352.54	301.3	
6	1,877	75.38	60.8	
7	2,423	271.67	169.9	
8	3,447	133.84	58.8	
9	4,030	158.96	59.8	
10	5,068	493.13	147.4	
11	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : Melon2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	391	19,073.6	4,717.68	5,728.0	66	19.7	■

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Electropherogram Summary Continued ...

Melon3



Overall Results for sample 5 : Melon3

Number of peaks found: 37 Corr. Area 1: 9,861.3
Noise: 2.0

Peak table for sample 5 : Melon3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	68	72.85	1,619.2	
3	189	15,309.09	122,675.4	
4	206	2,812.25	20,703.9	
5	210	2,202.97	15,875.7	
6	225	1,893.17	12,745.4	
7	236	2,066.44	13,243.8	
8	249	2,067.99	12,571.3	
9	259	2,848.15	16,654.3	
10	273	1,551.69	8,598.3	
11	280	2,960.47	16,028.6	
12	296	2,902.84	14,876.9	
13	313	2,004.22	9,705.4	
14	326	7,455.38	34,627.7	
15	386	5,385.50	21,114.7	
16	512	441.77	1,307.0	
17	575	270.77	713.5	
18	605	205.69	515.1	
19	631	235.75	566.0	
20	821	199.32	368.0	
21	970	207.34	323.9	
22	1,195	728.65	923.7	
23	1,755	252.28	217.8	
24	2,944	582.88	300.0	
25	3,660	128.60	53.2	
26	3,999	161.03	61.0	

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Electropherogram Summary Continued ...

... Peak table for sample 5 : Melon3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,933	94.66	24.2	
28	6,883	187.57	41.3	
29	8,414	106.85	19.2	
30	9,602	71.02	11.2	
31	10,380	75.00	10.9	Upper Marker
32	12,714	0.00	0.0	
33	13,369	0.00	0.0	
34	14,475	0.00	0.0	
35	15,376	0.00	0.0	
36	16,359	0.00	0.0	
37	17,260	0.00	0.0	
38	17,874	0.00	0.0	
39	18,611	0.00	0.0	

Region table for sample 5 : Melon3

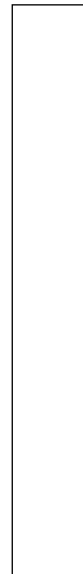
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	367	221,235.6	44,350.94	9,861.3	66	43.9	

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Electropherogram Summary Continued ...

Melon4



Overall Results for sample 6 : Melon4

Number of peaks found: 25 Corr. Area 1: 4,234.4
 Noise: 2.2

Peak table for sample 6 : Melon4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	11.14	372.4	
3	279	47.51	257.6	
4	405	2,098.49	7,854.4	
5	418	2,286.60	8,288.8	
6	968	8.55	13.4	
7	1,164	10.57	13.8	
8	1,484	17.17	17.5	
9	1,611	14.91	14.0	
10	1,978	17.43	13.3	
11	2,248	19.13	12.9	
12	2,476	20.51	12.5	
13	2,811	27.13	14.6	
14	3,067	28.04	13.8	
15	4,288	49.91	17.6	
16	5,845	22.52	5.8	
17	7,586	13.14	2.6	
18	10,380	75.00	10.9	Upper Marker
19	13,479	0.00	0.0	
20	15,053	0.00	0.0	
21	16,171	0.00	0.0	
22	18,456	0.00	0.0	
23	19,726	0.00	0.0	
24	23,231	0.00	0.0	
25	24,196	0.00	0.0	
26	27,600	0.00	0.0	


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Electropherogram Summary Continued ...**... Peak table for sample 6 : Melon4**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	28,666	0.00	0.0	

Region table for sample 6 : Melon4

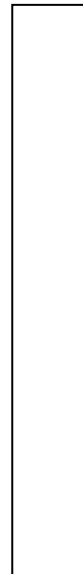
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	431	17,142.8	4,606.41	4,234.4	87	21.8	

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Electropherogram Summary Continued ...

Melon5



Overall Results for sample 7 : Melon5

Number of peaks found: 19 Corr. Area 1: 6,445.7
 Noise: 1.6

Peak table for sample 7 : Melon5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	391	4,808.84	18,617.8	
3	409	1,076.57	3,989.2	
4	422	7,322.44	26,294.8	
5	919	42.50	70.0	
6	1,027	82.13	121.2	
7	1,767	434.34	372.4	
8	1,898	77.75	62.1	
9	2,202	109.80	75.6	
10	2,756	494.11	271.6	
11	4,258	304.14	108.2	
12	6,664	49.50	11.3	
13	7,255	61.56	12.9	
14	10,380	75.00	10.9	Upper Marker
15	12,405	0.00	0.0	
16	13,505	0.00	0.0	
17	13,901	0.00	0.0	
18	14,561	0.00	0.0	
19	16,190	0.00	0.0	
20	17,906	0.00	0.0	
21	18,566	0.00	0.0	

Region table for sample 7 : Melon5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	449	50,907.8	14,019.41	6,445.7	83	24.0	

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Electropherogram Summary Continued ...

Melon6



Overall Results for sample 8 : Melon6

Number of peaks found: 24 Corr. Area 1: 6,700.3
 Noise: 1.8


Peak table for sample 8 : Melon6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	378	20,813.98	83,382.5	
3	394	5,420.87	20,847.0	
4	404	19,774.01	74,175.6	
5	840	896.50	1,617.2	
6	1,656	3,601.57	3,295.2	
7	1,804	431.43	362.3	
8	1,917	610.39	482.5	
9	2,151	466.10	328.3	
10	2,407	1,231.27	775.2	
11	3,591	2,703.32	1,140.7	
12	9,258	120.99	19.8	
13	10,380	75.00	10.9	Upper Marker
14	13,252	0.00	0.0	
15	13,971	0.00	0.0	
16	14,554	0.00	0.0	
17	15,631	0.00	0.0	
18	16,080	0.00	0.0	
19	17,651	0.00	0.0	
20	18,997	0.00	0.0	
21	19,940	0.00	0.0	
22	21,825	0.00	0.0	
23	22,364	0.00	0.0	
24	24,967	0.00	0.0	
25	25,954	0.00	0.0	
26	26,582	0.00	0.0	

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Electropherogram Summary Continued ...**... Region table for sample 8 : Melon6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Co lor
200	1,000	424	194,068.9	49,451.88	6,700.3	78	30.4	

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Electropherogram Summary Continued ...

Peak table for sample 9 : DH4 Carrot

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	261	13.25	76.8	
3	454	712.17	2,377.4	
4	467	775.42	2,515.1	
5	1,292	9.61	11.3	
6	1,525	17.06	16.9	
7	1,830	25.43	21.1	
8	3,026	84.08	42.1	
9	3,915	20.55	8.0	
10	4,931	21.84	6.7	
11	5,354	19.43	5.5	
12	6,116	14.62	3.6	
13	7,058	21.25	4.6	
14	7,620	24.79	4.9	
15	10,380	75.00	10.9	Upper Marker
16	13,344	0.00	0.0	
17	18,047	0.00	0.0	
18	18,609	0.00	0.0	
19	20,142	0.00	0.0	
20	22,646	0.00	0.0	
21	23,515	0.00	0.0	
22	26,326	0.00	0.0	
23	27,349	0.00	0.0	
24	31,284	0.00	0.0	
25	33,022	0.00	0.0	
26	34,811	0.00	0.0	

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Electropherogram Summary Continued ...

... Region table for sample 9 : DH4 Carrot

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
251	1,000	485	5,165.5	1,505.75	4,314.7	72	27.2	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2011-11-28_007.xad

Created: 11/28/2011 4:36:31 PM
Modified: 12/21/2012 12:15:52 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2011-11-28_007.xad

Created: 11/28/2011 4:36:31 PM
Modified: 12/21/2012 12:15:52 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.