

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-03\2014-03-03_005.xad

Created: 3/3/2014 4:41:46 PM
Modified: 3/3/2014 5:22:52 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:

lib 3T3 21

lib DSI 22

lib E14 23

lib Yiwen

Riley 2

Riley 4

Riley 5

Riley 6

Riley 7

Riley 12

Riley 13

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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib 3T3 21		<input type="checkbox"/>	✓			
lib DSI 22		<input type="checkbox"/>	✓			
lib E14 23		<input type="checkbox"/>	✓			
lib Yiwon		<input type="checkbox"/>	✓			
Riley 2		<input type="checkbox"/>	✓			
Riley 4		<input type="checkbox"/>	✓			
Riley 5		<input type="checkbox"/>	✓			
Riley 6		<input type="checkbox"/>	✓			
Riley 7		<input type="checkbox"/>	✓			
Riley 12		<input type="checkbox"/>	✓			
Riley 13		<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	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.28	50	150.00	4,545.5	Ladder Peak
3	50.64	100	150.00	2,272.7	Ladder Peak
4	55.25	150	150.00	1,515.2	Ladder Peak
5	59.81	200	150.00	1,136.4	Ladder Peak
6	68.84	300	150.00	757.6	Ladder Peak
7	76.97	400	150.00	568.2	Ladder Peak
8	82.65	500	150.00	454.5	Ladder Peak
9	87.30	600	150.00	378.8	Ladder Peak
10	90.52	700	150.00	324.7	Ladder Peak
11	94.49	1,000	150.00	227.3	Ladder Peak
12	101.24	2,000	150.00	113.6	Ladder Peak
13	104.60	3,000	150.00	75.8	Ladder Peak
14	109.69	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

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Electropherogram Summary Continued ...

lib DSI 22



Overall Results for sample 2 : lib DSI 22

Number of peaks found: 14 Corr. Area 1: 5,190.4
 Noise: 0.2

Peak table for sample 2 : lib DSI 22

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	69.23	305	1,027.51	5,106.5	
3	71.58	334	535.93	2,433.5	
4	73.29	355	180.35	770.3	
5	74.87	374	412.02	1,668.6	
6	75.59	383	189.08	748.0	
7	77.17	403	218.76	821.6	
8	77.71	413	160.05	587.2	
9	80.37	460	238.17	784.8	
10	81.04	472	187.21	601.3	
11	82.39	496	187.99	574.8	
12	82.98	507	276.41	825.8	
13	85.01	551	379.70	1,044.5	
14	86.99	593	272.10	694.7	
15	89.07	655	1,028.01	2,378.2	
16	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : lib DSI 22

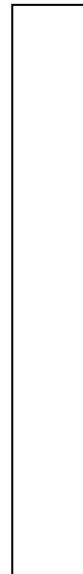
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,394	502	25,711.5	7,166.82	5,190.4	99	36.2

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Electropherogram Summary Continued ...

lib E14 23



Peak table for sample 3 : lib E14 23

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	71.29	330	2,167.58	9,946.3	
3	71.98	339	362.91	1,623.8	
4	73.17	353	361.17	1,549.0	
5	73.63	359	332.16	1,402.3	
6	74.82	374	222.71	903.4	
7	77.15	403	268.58	1,009.3	
8	77.98	418	438.56	1,590.8	
9	79.40	443	439.05	1,502.6	
10	80.72	466	959.62	3,119.5	
11	84.94	549	1,143.91	3,155.9	
12	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 3 : lib E14 23

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,000	428	31,128.4	7,775.28	4,421.2	98	31.0

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Gel Image**Peak table for sample 4 : lib Yiwen**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	66.15	270	538.17	3,017.6	
3	66.57	275	130.00	716.6	
4	67.22	282	766.61	4,118.1	
5	113.00	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : lib Yiwen

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
162	527	299	8,242.4	1,554.48	894.2	89	19.4

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