

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...tings\Bioanalyzer\2015-12-19\2015-12-19_001_BMAG039_A_B.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:24:04 AM

Electrophoresis File Run Summary

Instrument Information:

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

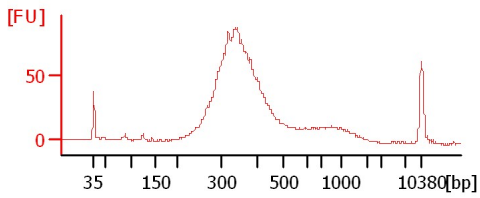
Assay Information:

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

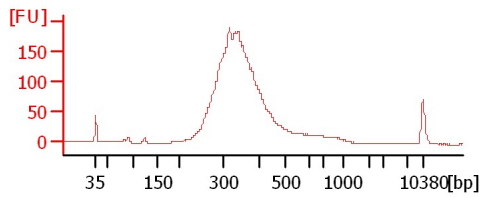
Chip Information:

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

BMAG039A



BMAG039B



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BMAG039A		<input type="checkbox"/>				
BMAG039B		<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

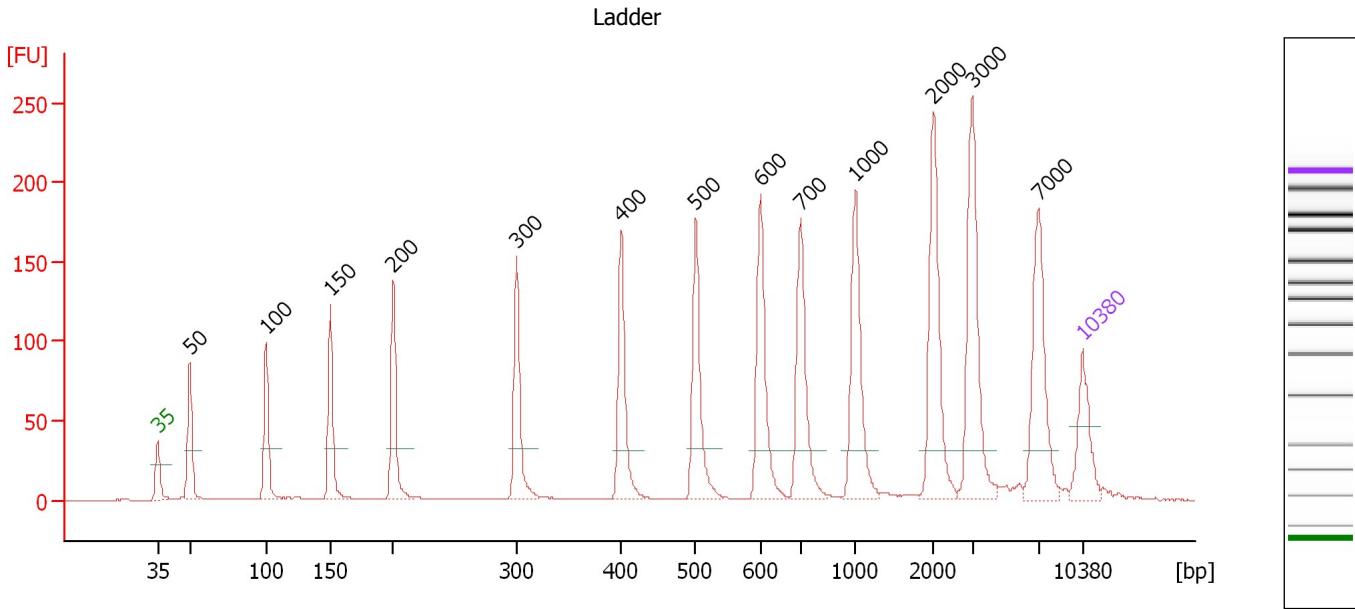
Ladder

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



Overall Results for Ladder

Noise: 0.2

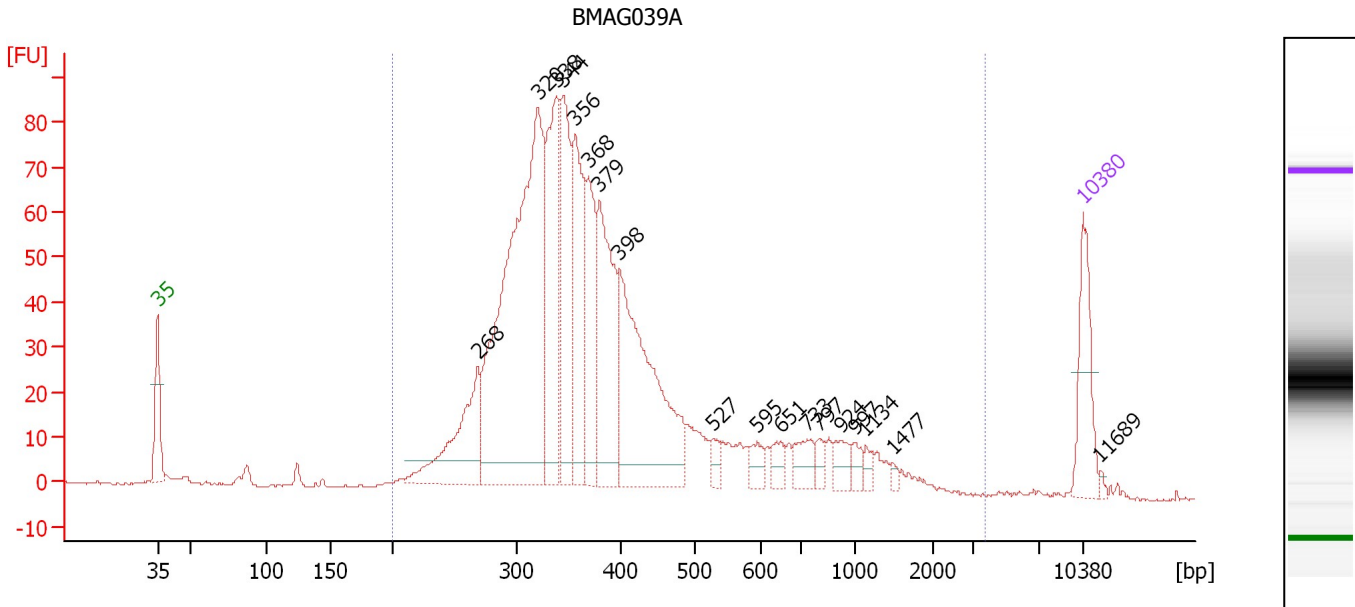
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.45
3	100	150.00	2,272.7	Ladder Peak	51.20
4	150	150.00	1,515.2	Ladder Peak	56.06
5	200	150.00	1,136.4	Ladder Peak	60.83
6	300	150.00	757.6	Ladder Peak	70.20
7	400	150.00	568.2	Ladder Peak	78.09
8	500	150.00	454.5	Ladder Peak	83.71
9	600	150.00	378.8	Ladder Peak	88.61
10	700	150.00	324.7	Ladder Peak	91.64
11	1,000	150.00	227.3	Ladder Peak	95.79
12	2,000	150.00	113.6	Ladder Peak	101.72
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.66
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 10 : BMAG039A

Number of peaks found: 18 Corr. Area 1: 1,408.8
 Noise: 0.2

Peak table for sample 10 : BMAG039A

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	268	176.57	997.2		67.23
3	320	760.43	3,603.0		71.76
4	338	253.75	1,137.7		73.19
5	344	199.07	877.3		73.65
6	356	198.78	845.8		74.62
7	368	142.03	584.1		75.60
8	379	225.46	901.5		76.43
9	398	342.78	1,304.0		77.95
10	527	18.07	52.0		85.03
11	595	20.63	52.5		88.36
12	651	19.81	46.1		90.16
13	733	34.29	70.9		92.10
14	797	15.76	30.0		92.98
15	924	22.63	37.1		94.74
16	997	15.67	23.8		95.75
17	1,134	11.25	15.0		96.59
18	1,477	5.75	5.9		98.62
19	10,380	75.00	10.9	Upper Marker	113.00
20	11,689	0.00	0.0		114.29

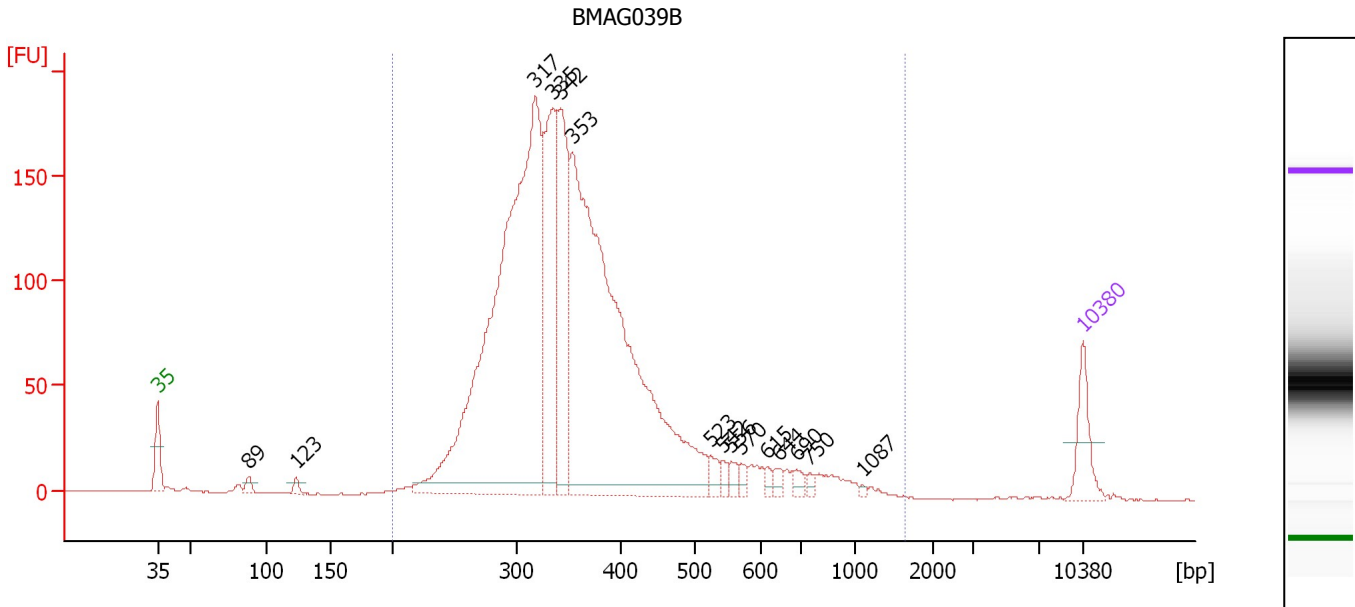
Region table for sample 10 : BMAG039A

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	3,793	431	1,408.8	11,633.0	2,753.90	98	57.6

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Electropherogram Summary Continued ...



Overall Results for sample 11 : BMAG039B

Number of peaks found: 15 Corr. Area 1: 2,738.4
 Noise: 0.2

Peak table for sample 11 : BMAG039B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	89	20.50	349.7		49.92
3	123	14.64	180.0		53.47
4	317	1,850.67	8,843.8		71.54
5	335	439.76	1,991.4		72.93
6	342	425.43	1,883.7		73.53
7	353	1,743.15	7,488.1		74.36
8	523	27.67	80.2		84.82
9	542	17.87	50.0		85.75
10	556	20.86	56.9		86.44
11	570	16.86	44.8		87.13
12	615	13.40	33.0		89.07
13	644	14.18	33.4		89.94
14	690	20.72	45.5		91.33
15	750	11.69	23.6		92.34
16	1,087	4.61	6.4		96.31
17	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : BMAG039B

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,641	372	2,738.4	20,916.7	4,721.89	99	33.0

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Gel Image

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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/19/2015 11:22:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-19\2015-12-19_001.xad)		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1