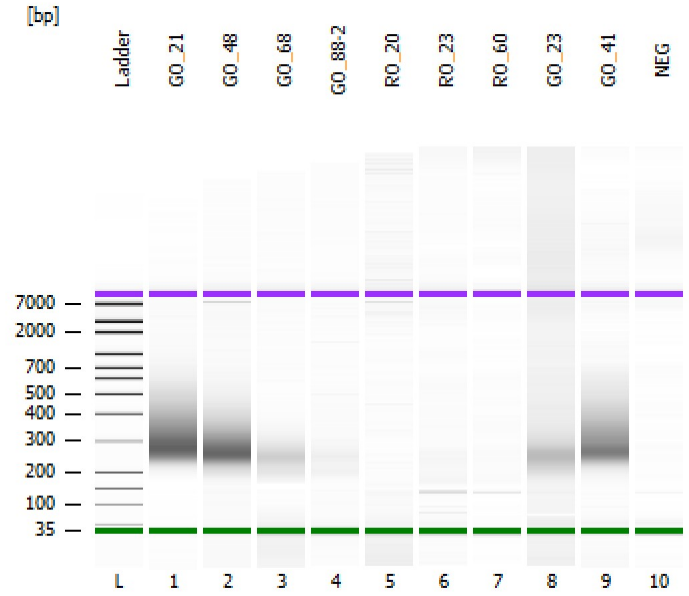
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name:	DE13804163	Firmware:	C.01.069
Serial#:	DE13804163	Type:	G2939A

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

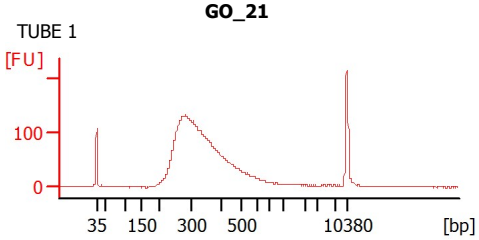
Chip Information:

Chip Lot #:

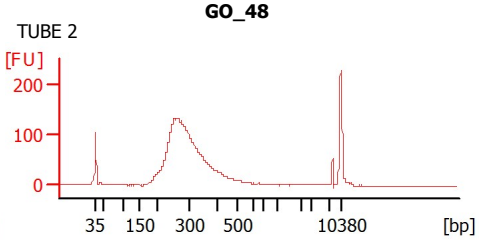
Reagent Kit Lot #:

Chip Comments:

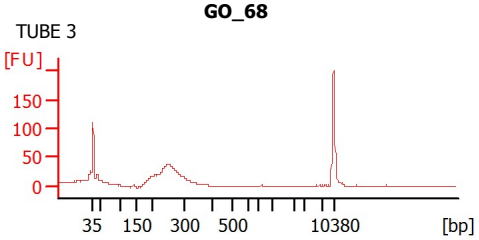
GO_21



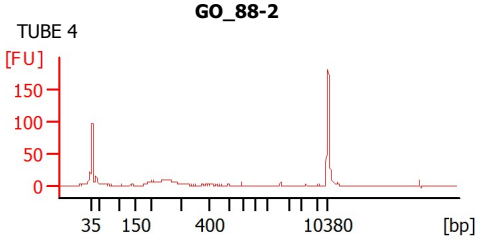
GO_48



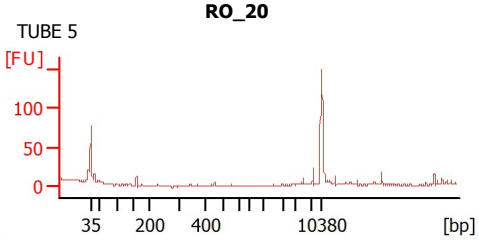
GO_68



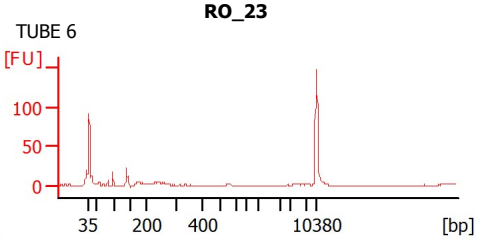
GO_88-2



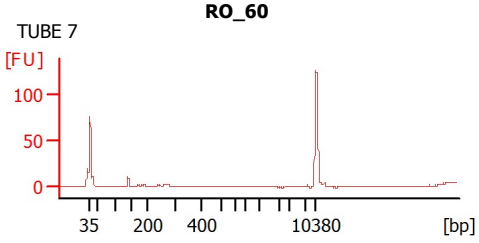
RO_20



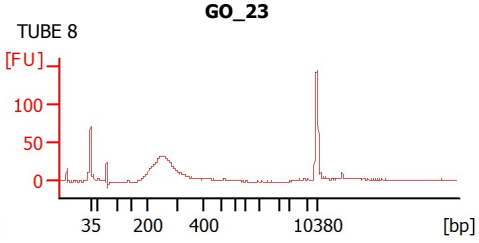
RO_23



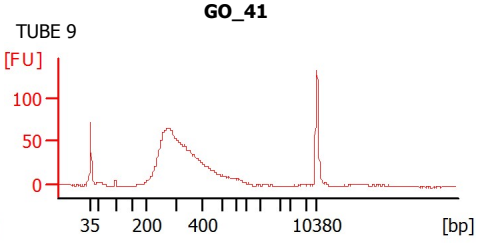
RO_60



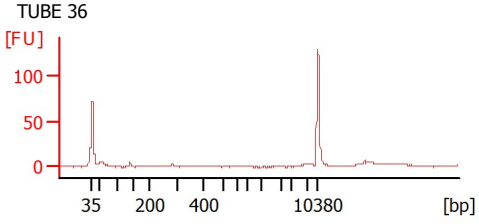
GO_23



GO_41



NEG



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
GO_21	TUBE 1	☐	✔			
GO_48	TUBE 2	☐	✔			
GO_68	TUBE 3	☐	✔			
GO_88-2	TUBE 4	☐	✔			
RO_20	TUBE 5	☐	✔			
RO_23	TUBE 6	☐	✔			
RO_60	TUBE 7	☐	✔			
GO_23	TUBE 8	☐	✔			
GO_41	TUBE 9	☐	✔			
NEG	TUBE 36	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 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/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

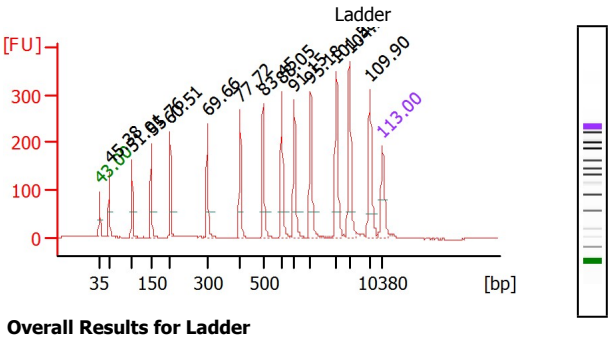
Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electropherogram Summary

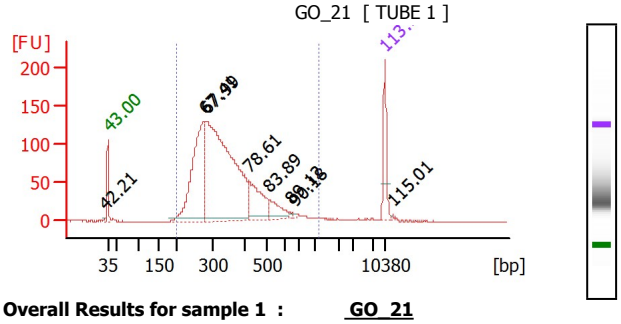


Overall Results for Ladder

Noise: 0.3

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



Overall Results for sample 1 : GO_21

Number of peaks found: 8
Noise: 0.4
Corr. Area 1: 2,505.5

Region table for sample 1 : GO_21

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	2,505.5	97	352	32.6	1,716.79	8,168.6	

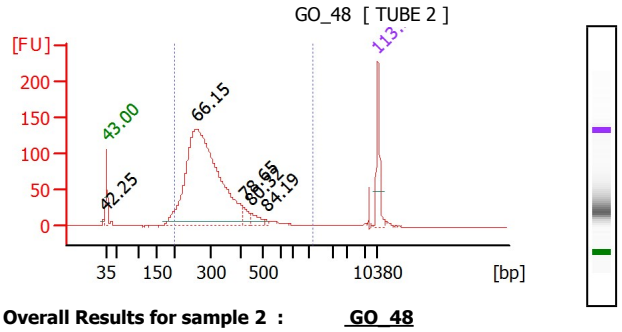
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electropherogram Summary Continued ...

Peak table for sample 1 : GO_21

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	275	478.13	2,630.5	
4	282	1,036.89	5,575.9	
5	416	151.80	553.5	
6	510	62.17	184.9	
7	635	4.66	11.1	
8	669	2.81	6.4	
9	10,380	75.00	10.9	Upper Marker
10	12,569	0.00	0.0	



Overall Results for sample 2 : GO_48

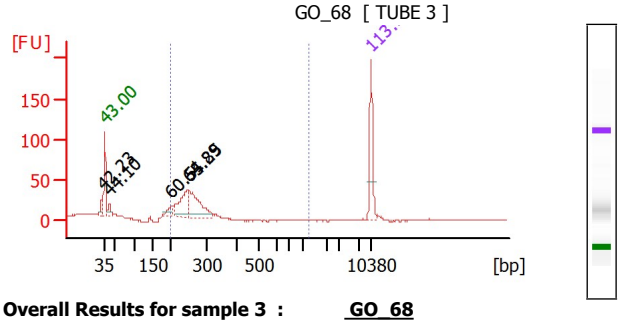
Number of peaks found: 5
Noise: 0.5
Corr. Area 1: 2,042.0

Region table for sample 2 : GO_48

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	2,042.0	95	309	27.2	1,303.50	6,830.4	

Peak table for sample 2 : GO_48

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	262	1,310.98	7,590.4	
4	416	25.17	91.6	
5	445	32.98	112.2	
6	516	4.66	13.7	
7	10,380	75.00	10.9	Upper Marker



Overall Results for sample 3 : GO_68

Number of peaks found: 5
Noise: 0.6
Corr. Area 1: 315.4

Region table for sample 3 : GO_68

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	315.4	68	254	11.7	245.60	1,471.3	

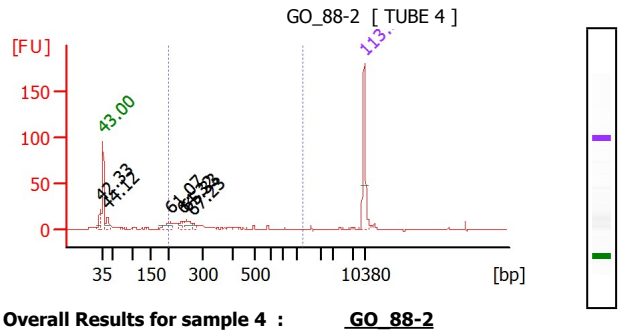
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electropherogram Summary Continued ...

Peak table for sample 3 : GO_68

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	28.67	1,036.1	
4	200	27.64	209.4	
5	247	102.16	625.6	
6	252	121.09	727.4	
7	10,380	75.00	10.9	Upper Marker



Overall Results for sample 4 : GO_88-2

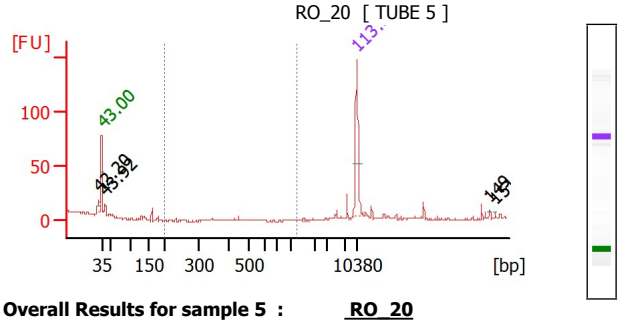
Number of peaks found:	6
Noise:	0.4
Corr. Area 1:	119.4

Region table for sample 4 : GO_88-2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	119.4	49	287	33.0	117.86	675.6	

Peak table for sample 4 : GO_88-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	42	35.68	1,285.3	
4	206	32.83	241.3	
5	242	13.48	84.5	
6	253	26.62	159.7	
7	273	7.77	43.0	
8	10,380	75.00	10.9	Upper Marker



Overall Results for sample 5 : RO_20

Number of peaks found:	4
Noise:	0.6
Corr. Area 1:	0.0

Region table for sample 5 : RO_20

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	0.0	0	0	0.0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

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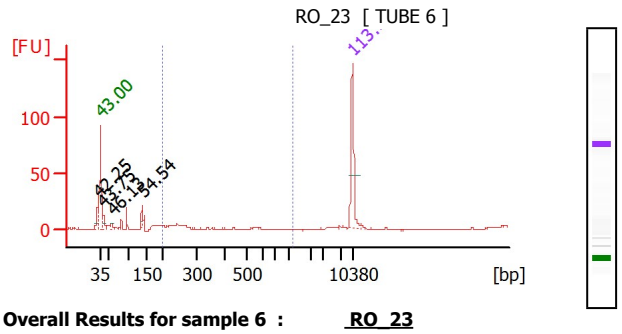
Electropherogram Summary Continued ...

Peak table for sample 5 : RO_20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	41	11.97	444.6	
4	10,380	75.00	10.9	Upper Marker
5	50,107	0.00	0.0	
6	51,919	0.00	0.0	



Overall Results for sample 6 : RO_23

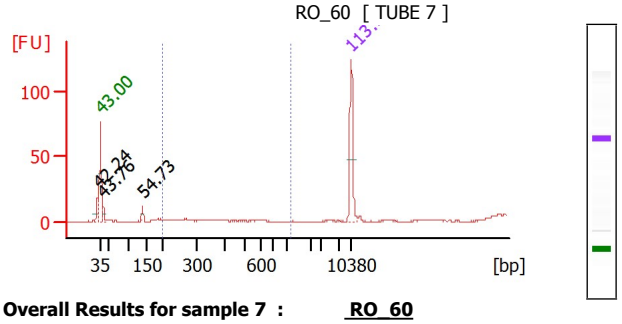
Number of peaks found:	4
Noise:	0.3
Corr. Area 1:	19.4

Region table for sample 6 : RO_23

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	19.4	16	239	8.4	21.08	133.7	

Peak table for sample 6 : RO_23

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	22.37	852.5	
4	57	8.84	236.1	
5	137	20.73	228.9	
6	10,380	75.00	10.9	Upper Marker



Overall Results for sample 7 : RO_60

Number of peaks found:	3
Noise:	0.4
Corr. Area 1:	2.4

Region table for sample 7 : RO_60

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	2.4	4	251	8.4	2.74	16.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

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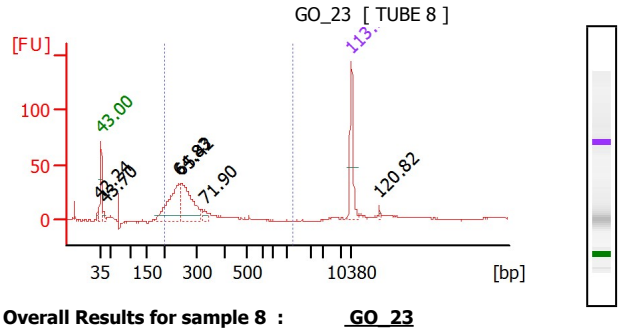
Electropherogram Summary Continued ...

Peak table for sample 7 : RO_60

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	18.06	687.8	
4	139	12.59	137.1	
5	10,380	75.00	10.9	Upper Marker



Overall Results for sample 8 : GO_23

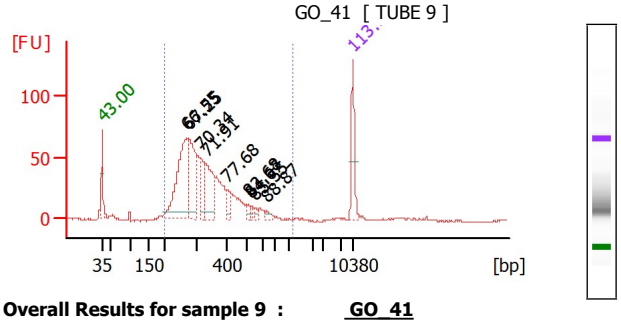
Number of peaks found:	6
Noise:	0.5
Corr. Area 1:	363.5

Region table for sample 8 : GO_23

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	363.5	80	270	18.6	343.58	1,984.5	

Peak table for sample 8 : GO_23

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	39	11.18	429.5	
4	247	175.05	1,072.6	
5	254	183.07	1,093.5	
6	328	12.24	56.6	
7	10,380	75.00	10.9	Upper Marker
8	18,911	0.00	0.0	



Overall Results for sample 9 : GO_41

Number of peaks found:	9
Noise:	0.6
Corr. Area 1:	1,119.1

Region table for sample 9 : GO_41

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
200	1,200	1,119.1	96	336	28.5	1,154.05	5,670.8	

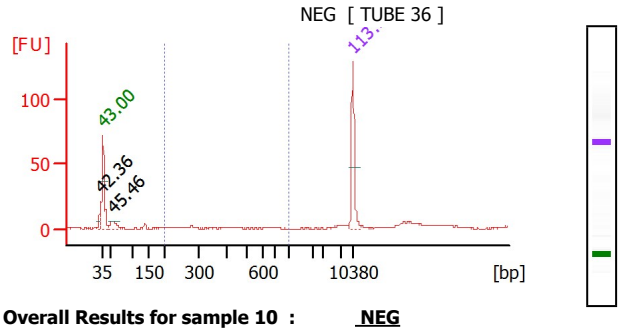
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Electropherogram Summary Continued ...

Peak table for sample 9 : GO_41

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	356.21	2,029.1	
3	274	217.77	1,205.8	
4	308	93.53	459.5	
5	328	159.29	735.9	
6	400	39.16	148.5	
7	505	10.09	30.3	
8	527	8.85	25.5	
9	546	10.83	30.1	
10	627	10.20	24.7	
11	10,380	75.00	10.9	Upper Marker



Overall Results for sample 10 : NEG

Number of peaks found:	2
Noise:	0.4
Corr. Area 1:	3.1

Region table for sample 10 : NEG

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	3.1	4	382	42.5	3.48	16.8	

Peak table for sample 10 : NEG

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	51	33.34	995.9	
4	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ioanalyzer\2100 expert\data\2016-05-20\CNelson_1-9and36.xad

Created: 5/20/2016 1:32:18 PM
Modified: 5/20/2016 3:28:28 PM

Gel Image