7/10/2017 11:50:23 AM Assay Class: High Sensitivity DNA Assay Created: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad Modified: 7/10/2017 12:37:58 PM Data Path: **Electrophoresis File Run Summary Instrument Information:** [bp] 303 DA CH 1X ABUDA CHIX Cm.DACH 1X G DM2 de. MC8 1:10 G DM2 de MC6 1:10 Ladder Firmware: C.01.069 Instrument Name: DE24802735 Serial#: DE24802735 G2938B Type: 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 7000 2000 Chip Information: 700 Chip Lot #: 500 400 Reagent Kit Lot #: 300 Chip Comments: 200 100 — 35 **—** 7 8 9 10 11 16S-bac-MEM1 post 1:10 18S-euk-MEM1 post 1:12 CS_DM2 cleaned 1:4 [FU] [FU] [FU] 200 -150 100 100 100 50 35 150 300 500 10380 [bp] 35 150 300 500 10380 [bp] 35 150 300 500 10380 [bp] C.m.DA CH 1X 903 DA CH 1X CS_DM2 cleaned 1:4 [FU]_ [FU]_ [FU] 100 150 150 100 100 50 50 50 0 0 150 300 500 10380 [bp] 35 150 300 500 10380 [bp] 35 150 300 500 10380 [bp] **AGBJ DA CH1X** MC-5 1:10 MC-6 1:10 [FU]_ [FU]_ [FU]_ 150 150 40 100 100 20 50 50 35 150 300 [bp] 10380 [bp] 35 200 10380 35 150 400 10380 600 400 [bp] MC-8 1:10 MC-16 1:4 [FU] [FU] 150 150 100 100 50 50 200 400 10380 [bp] 200 400 10380 [bp]

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Assay Class: 7/10/2017 11:50:23 AM 7/10/2017 12:37:58 PM High Sensitivity DNA Assay Created: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad Data Path: Modified: **Electrophoresis File Run Summary (Chip Summary) Sample Name Sample Comment** Rest. Digest Status Observation **Result Label** Res ult Col or 16S-bac-MEM1 post 1:10 18S-euk-MEM1 post 1:12 CS_DM2 cleaned 1:4 CS_DM2 cleaned 1:4 C.m.DA CH 1X

Chip Lot # Reagent Kit Lot #

Chip Comments:

903 DA CH 1X AGBJ DA CH1X MC-5 1:10 MC-6 1:10 MC-8 1:10 MC-16 1:4 Ladder

Assay Class: High Sensitivity DNA Assay Created: 7/10/2017 11:50:23 AM Data Path: C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-

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

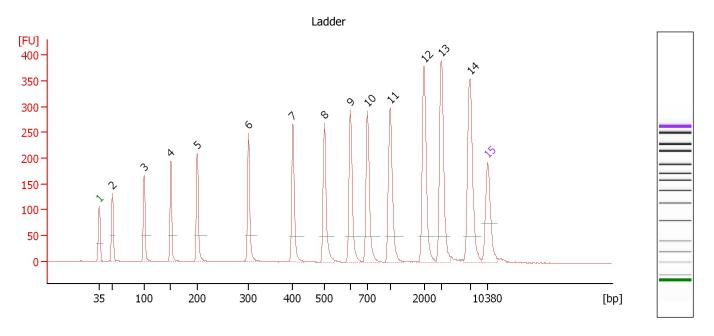
Filter Width [s]: 0.5 Polynomial Order: 4

Ladder

Size	Area
35	160
50	210
100	208
150	221
200	242
300	270
400	305
500	306
600	336
700	321
1000	366
2000	413
3000	411
7000	400
10380	214
	35 50 100 150 200 300 400 500 600 700 1000 2000 3000 7000

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad C:\...gh Sensitivity DNA A

Electropherogram Summary



Overall Results for Ladder

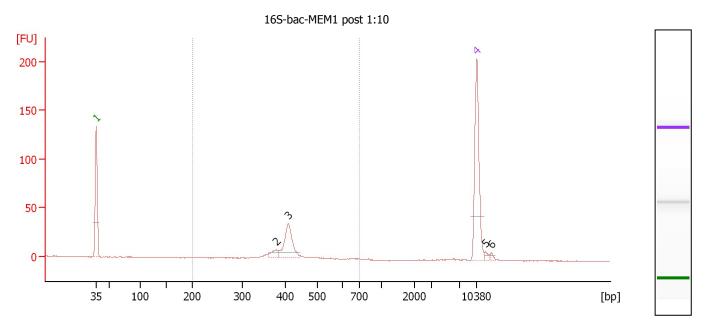
Noise: 0.3

Deak	table	for	Ladder
reak	Lavie	101	Lauuei

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2	L	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	L	300	150.00	757.6	Ladder Peak
7		400	150.00	568.2	Ladder Peak
8	L	500	150.00	454.5	Ladder Peak
9		600	150.00	378.8	Ladder Peak
10	L	700	150.00	324.7	Ladder Peak
11	L	1,000	150.00	227.3	Ladder Peak
12		2,000	150.00	113.6	Ladder Peak
13	L	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

Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 1: 16S-bac-MEM1 post 1:10

Number of peaks found: 4 Corr. Area 1: 121.9

Noise: 0.3

Peak table for sample 1:	16S-bac-MEM1 post 1:10
Peak table for sample 1:	165-Dac-MEM1 DOST 1:10

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	- ◀	35	125.00	5,411.3	Lower Marker
2		378	9.43	37.9	
3		407	47.84	178.0	
4		10,380	75.00	10.9	Upper Marker
5		12,000	0.00	0.0	
6		13 306	0.00	0.0	

Region table for sample 1: 16S-bac-MEM1 post 1:10

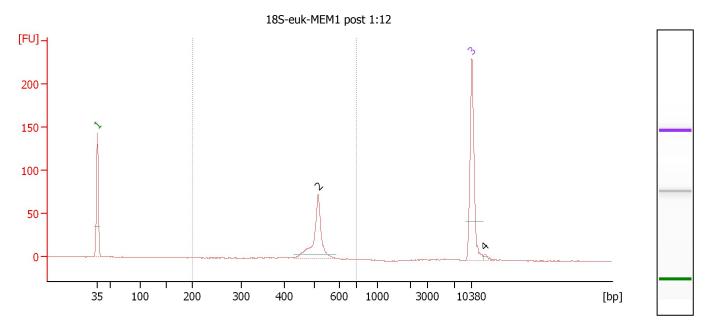
From [bp]	To [bp	o] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Co lor
200	700	121 9	86	406	10.6	76 23	288 1	

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Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad C:\...gh Sensitivity DNA A

Electropherogram Summary Continued ...



Overall Results for sample 2: <u>18S-euk-MEM1 post 1:12</u>

Number of peaks found: 2 Corr. Area 1: 164.1

Noise: 0.2

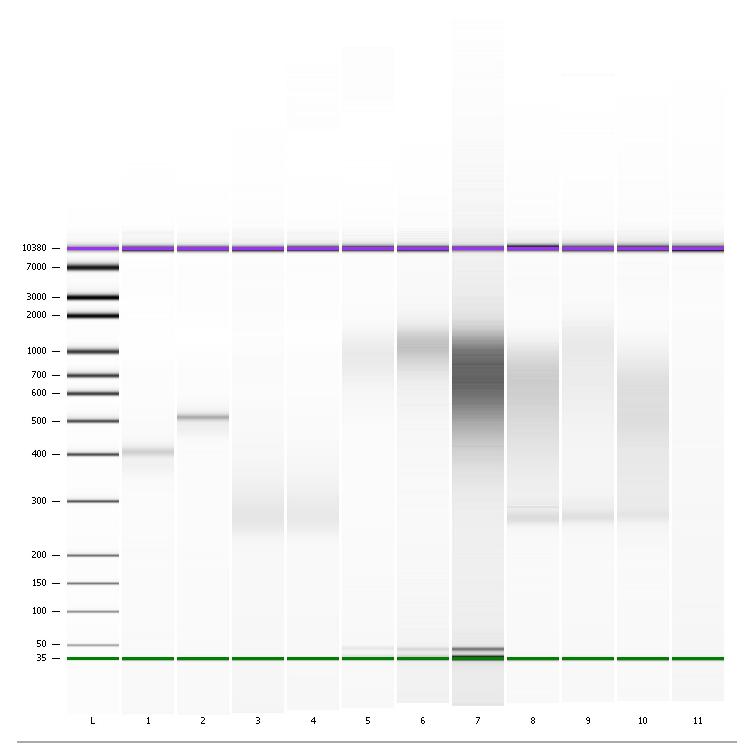
Peak table for sample 2: <u>18S-euk-MEM1 post 1:12</u>

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	4	35	125.00	5,411.3	Lower Marker
2		514	77.60	228.7	
3		10,380	75.00	10.9	Upper Marker
4		12,876	0.00	0.0	

Region table for sample 2: <u>18S-euk-MEM1 post 1:12</u>

From [bp]	To [bp] Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Co lor
200	700	164 1	83	495	11.6	93 37	295.8	

High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad Created: Modified: 7/10/2017 11:50:23 AM 7/10/2017 12:37:58 PM Assay Class: Data Path: **Gel Image** DM2 cle... G DMZ de... Cm.DAGH 1X 903 DACH 1X ABU PA CHIX [bp] 16S-bac-ME... 18S-euk-ME... MC16 1:4 MC5 1:10 MC6 1:10 MC8 1:10 Ladder Ø



Assay Class: Data Path:

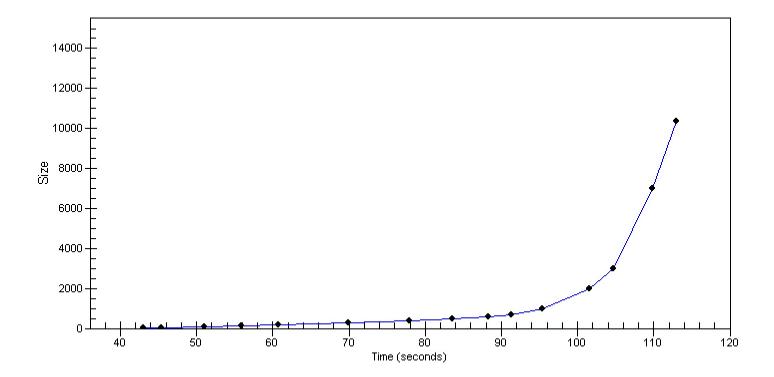
High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad

Created: Modified: 7/10/2017 11:50:23 AM 7/10/2017 12:37:58 PM

Printed: 7/10/2017 12:38:23 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay C:\...gh Sensitivity DNA Assay_DE24802735_2017-07-10_11-50-24.xad C:\...gh Sensitivity DNA A

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		7/10/2017 12:30:52 PM	(GMT07:00) Pacific Standard Time	genomics	3730PC
Run started on port 1 (File: C:\Program Files\Agilent\21 00 bioanalyzer\210 0 expert\Data\20:7-07-10\2100 expert_High Sensitivity DNA Assay_DE24802 735_2017-07-10_11-50-24.xad)	1	Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time		3730PC
Product Number: G2938B	r	Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time	9	3730PC
Name :		Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time	9	3730PC
Vendor : Agilent Technologies	t	Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time		3730PC
Serial#: DE24802735		Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time		3730PC
Firmware : C.01.069		Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time		3730PC
Cartridge : Electrode		Instrument	Run		7/10/2017 11:50:29 AM	(GMT07:00) Pacific Standard Time	genomics	3730PC