

Assay Class:

2012-03-21_006.xad

Prokaryote Total RNA Nano

3/21/2012 4:17:14 PM

Created:

2100 Expert (B.02.08.SI648)

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Printed: 3/21/2012 4:42:34 PM

2012-03-21_	Page 2 of 18				
Assay Class: Data Path:	s: Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyzer\2012-03-21\2012-03-21_006.xad				3/21/2012 4:17:14 PM 3/21/2012 4:41:04 PM
Electrophore	sis File Run Summary (Chip Sum	ımary)			
Sample Name	Sample Comment	Status Result Label	Result Color		
A depleted		~			
B depleted		~			
C depleted		×			

D depleted	×
E depleted	×
F depleted	×
G depleted	×
H depleted	×
NRC-1 culture 4 1 undepleted	×
NRC-1 culture 4 2 undepleted	×
NRC-1 culture 3 1 undepleted	×
NRC-1 culture 3 2 undepleted	×
Ladder	*
Chip Lot #	Reagent Kit Lot #

Chip Comments :

Assay Class: Prokaryote Total RNA Nano Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-21\2012-03-21_006.xad

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.): 13

Minimum Visible Range [s] : 17Maximum Visible Range [s] : 70Start Analysis Time Range [s] : 19End Analysis Time Range [s] : 69Ladder Concentration $[ng/\mu I] : 150$ Lower Marker Concentration $[ng/\mu I] : 0$ Upper Marker Concentration $[ng/\mu I] : 0$ Used Lower Marker for Quantitation Standard Curve Fit is Logarithmic Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19 Integration End Time [s] : 69 Slope Threshold : 0.6 Height Threshold [FU] : 0.5 Area Threshold : 0.2 Width Threshold [s] : 0.5 Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5 Polynomial Order : 4

Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Created: 3/21/2012 4:17:14 PM Modified: 3/21/2012 4:41:04 PM



Overall Results for Ladder

RNA Area: 100.0 RNA Concentration: 150 ng/µl

2012-03-21_	_006.xad							Page	5 of 1	.8
Assay Class: Data Path:	Prokaryote Total RI C:\ents and Setti	NA Nano ngs\Bioanalyze	er\2012-03-2	1\2012-03-2	21_006.xad		Created: Modified:	3/21/2012 3/21/2012	4:17:14 P 4:41:04 P	M M
Electropher	ogram Summary C	ontinued								
			A depl	eted						
[FU]										
30 -										
25-										
20-										
15-	l		1					-	_	
10-									_	
5-										
0	Lunna			102	SS.			_		
	25	200	500	1000	2000	4000	[nt	:]		

A depleted Overall Results for sample 1 :

RNA Area:	50.7	rRNA Ratio [23s / 16s]:	2.1	
RNA Concentration:	76 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragment table for sample 1 : A depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	714	893	12.7	24.9
23S	1,289	1,701	26.1	51.4

2012-03-21	_006.xad					Page	6	of 18
Assay Class: Data Path:	Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyze	r\2012-03-21\2012-03-21	L_006.xad	C M	Created: odified:	3/21/2012 3/21/2012	4:17 4:41	:14 PM :04 PM
Electropher	ogram Summary Continued							
		B depleted						
[FU]			2000					

Overall	Results	for	sample 2	:	B deplete
0.0.4	ites and		Jampie -		

RNA Area:	64.8
RNA Concentration:	97 ng/

d

NA Area:	64.8	rRNA Ratio [23s / 16s]:	2.1	
NA Concentration:	97 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragment table for sample 2 : **B** depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	711	822	15.5	23.9
23S	1,276	1,692	33.0	51.0

2012-03-21_	_006.xad							Page	7 o	of 18
Assay Class: Data Path:	Prokaryote Total RNA C:\ents and Setting	Nano s\Bioanalyze	r\2012-03-	21\2012-03-2	1_006.xad		Created: Modified:	3/21/2012 3/21/2012	4:17:1 4:41:(14 PM 04 PM
Electropher	ogram Summary Co	ntinued								
			C de	pleted						
[FU] 40 - 35 - 30 - 25 - 20 - 15 - 10 - 5 - 0 -	1 25		1 500	1000	2000	4000	[nt			

Overall Results for sample 3 : C dep	Overall	Results	for	sample 3	:	C deplet
--------------------------------------	---------	---------	-----	----------	---	----------

RNA Area:	48
RNA Concentration:	73

ted

RNA Area:	48.8	rRNA Ratio [23s / 16s]:	2.1	
RNA Concentration:	73 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragment table for sample 3 : C depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	707	980	14.6	30.0
23S	1,269	1,588	31.2	64.0

2012-03-21_	_006.xad								Page	8	of 18
Assay Class: Data Path:	Prokaryote Total RNA C:\ents and Settings	Nano \Bioanalyze	r\2012-03	8-21\2012-03	8-21_00	6.xad		Created: Modified:	3/21/2012 3/21/2012	2 4:1 2 4:4	7:14 PM 1:04 PM
Electropher	ogram Summary Con	tinued									
			D de	epleted							
[FU] 60 -				1							
50 -											
40-											
30 -									_		
20-											
10-											
0	~~~ //~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			182	53				_		
	25	200	500	1000		2000	4000	[ni	t]		

Overall Results for sample 4 : <u>D depleted</u>	Overall Result	s for sample 4	: D dep	oleted
--	-----------------------	----------------	---------	--------

RNA Area:	8
RNA Concentration:	1

rea:	81.9	rRNA Ratio [23s / 16s]:	2.3
oncentration:	123 ng/µl	RNA Integrity Number (RIN):	N/A (B.02.08)

Fragment table for sample 4 : D depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	700	893	20.7	25.2
23S	1,250	1,623	47.6	58.2

2012	2-03-21_	_006.xad							Page 9	of 18
Assay Data	/ Class: Path:	Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyzer\2012-03-21\2012-03-21_006.xad			Created: Modified:	3/21/2012 4:3 3/21/2012 4:4	l7:14 PM 11:04 PM			
Elec	tropher	ogram Summary Cor	ntinued							
				Εd	lepleted					
[FU]_	1									
30 -										
25-										
20-										
15-		l								
10-										
5-										
0-					165	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	,~			
		25	200	500	1000	2000	4000	[nt	:]	

Overall Result	s for sample 5	E depleted
over all recourt	S for Sumple S	

RNA Area:	5
RNA Concentration:	8

d

RNA Area:	57.6	rRNA Ratio [23s / 16s]:	1.3	
RNA Concentration:	86 ng/µl	RNA Integrity Number (RIN):	10	(B.02.08)

Fragment table for sample 5 : E depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	688	796	20.4	35.4
23S	1,243	1,533	25.5	44.4

2012-03	3-21_006.xad							Page 10 of 18
Assay Cla Data Patl	ass: Prokaryote Total R h: C:\ents and Sett	NA Nano ings\Bioanalyz	er\2012-03-2	1\2012-03-21	_006.xad		Created: Modified:	3/21/2012 4:17:14 PM 3/21/2012 4:41:04 PM
Electro	pherogram Summary (Continued	•					
			F depl	leted				
[FU] _				1				
50 -								
40 -								
30 -			Ĩ					
20 -								
10-								
0			100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
	25	200	500	1000	2000	4000	[nt]

Overall	Results	for	sample	6	:	F deplete
Overail	Results	101	Sample	v		<u>i ucpiete</u>

RNA Area:	
RNA Concentration:	

ed

NA Area:	78.0	rRNA Ratio [23s / 16s]:	2.1	
NA Concentration:	117 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragment table for sample 6 : F depleted

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	681	820	21.0	26.9
23S	1,216	1,548	44.8	57.4

2012-03-	21_006.xad		Page 11 of 18
Assay Clas Data Path:	s: Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyzer\2012-03-21\2012-03-21_006.xad	Created: Modified:	3/21/2012 4:17:14 PM 3/21/2012 4:41:04 PM
Electroph	erogram Summary Continued		
	G depleted		
[FU]			
14-			
12-			
10-			
8-			
6-			
4-			
2-			
0	V Martin and and and and and and and and and an		
	25 200 500 1000 2000 4000	[n	t]

Overall Results for sample	e 7 : <u>G depleted</u>		
RNA Area:	30.7	rRNA Ratio [23s / 16s]:	0.0
RNA Concentration:	46 ng/µl	RNA Integrity Number (RIN):	1.8 (B.02.08)

2012-03-21 <u></u>	_006.xad		Page 12 of 18
Assay Class: Data Path:	Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyzer\2012-03-21\2012-03-2	Created: 1_006.xad Modified:	3/21/2012 4:17:14 PM 3/21/2012 4:41:04 PM
Electropher	ogram Summary Continued		
	H depleted		
12-			
10-			
8-			
6-			
4-			
2-			



Overall Results for sample o : <u>H depieted</u>	Overall Resul	ts for sampl	e8:	H depleted
--	----------------------	--------------	-----	------------

RNA Area:	22.7	rRNA Ratio [23s / 16s]:	0.0	
RNA Concentration:	34 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragment table for sample 8	:	H depleted
-----------------------------	---	------------

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
23S	1,209	1,404	3.9	17.2

2012-03-21_	_006.xad							Page	13 of 1	8
Assay Class: Data Path:	Prokaryote Total RN C:\ents and Settin	A Nano gs\Bioanaly	yzer\2012-()3-21\2012-03	-21_006.xad		Created: Modified:	3/21/2012 3/21/2012	4:17:14 P 4:41:04 P	M' M
Electropher	ogram Summary Co	ontinued								
		١	NRC-1 cultu	re 4 1 undeple	ted					
[FU]										
200-										
150 -										
100-										
50 -										
0			, in the second	13						
	25	200	500	1000	2000	4000	[nt]		

Overall Results for sample	9 : <u>NRC-1 cultur</u>	e 4 1 undepleted		
RNA Area:	275.2	rRNA Ratio [23s / 16s]:	2.5	
RNA Concentration:	413 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragmen	t table for sample s	9: <u>NRC-1</u>	<u>l culture 4 1 u</u>	undepleted
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	654	751	69.3	25.2
235	1,155	1,500	174.6	63.4

2012-03-21_	_006.xad							Page	14	of 18
Assay Class: Data Path:	Prokaryote Total RN C:\ents and Settin	A Nano gs\Bioanaly	zer\2012-	03-21\2012	-03-21_006.xad		Created: Modified:	3/21/2012 3/21/2012	4:17 4:41	:14 PM :04 PM
Electropher	ogram Summary Co	ontinued .	••							
		Ν	RC-1 culti	ure 4 2 unde	epleted					
[FU]										
250 -										
200 -										
150-										
100-			A							
50 -										
0			100	3	< <u>23</u>			_		
	25	200	500	1000	2000	4000	[nt]		

Overall Results for sample	e 10 : <u>NRC-1 cultu</u>	<u>re 4 2 undepleted</u>		
RNA Area:	313.5	rRNA Ratio [23s / 16s]:	2.9	
RNA Concentration:	470 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragmen	t table for	sample 10	0:	<u>NRC-1</u>	culture	4 2 undepleted
	·				-	

Start Size [nt]	End Size [nt]	Area	% of total Area
655	748	76.5	24.4
1,154	1,630	222.5	71.0
	Start Size [nt] 655 1,154	Start Size [nt] End Size [nt] 655 748 1,154 1,630	Start Size [nt] End Size [nt] Area 655 748 76.5 1,154 1,630 222.5

2012-03-21_	_006.xad							Page 1	5 of 18
Assay Class: Data Path:	Prokaryote Total R C:\ents and Sett	NA Nano ings\Bioana	llyzer\2012 [.]	-03-21\2012-()3-21_006.xad	l	Created: Modified:	3/21/2012 4: 3/21/2012 4:	17:14 PM 41:04 PM
Electropher	ogram Summary (Continued	l						
			NRC-1 cult	ure 3 1 under	leted				
[FU]									
250-									
200-									
150-									
100-									-
50 -									
0				S N)				-
	25	200	500	1000	2000	4000	[nt	:]	

Overall Results for sample	e 11: <u>NRC-1 cultu</u>	<u>re 3 1 undepleted</u>		
RNA Area:	318.5	rRNA Ratio [23s / 16s]:	2.3	
RNA Concentration:	478 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragmen	t table for sample	11 : <u>NRC-1</u>	culture 3 1	undepleted
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
16S	640	828	89.0	28.0
23S	1,133	1,515	204.6	64.2

2012-03-21_	_006.xad									Page	16	of	18
Assay Class: Data Path:	Prokaryote Total RN C:\ents and Settin	A Nano Igs\Bioanaly	zer\2012	-03-21\2012	2-03-21_00	6.xad		ſ	Created: Modified:	3/21/2012 3/21/2012	2 4:1 2 4:4	7:14 1:04	PM PM
Electropher	ogram Summary Co	ontinued .	••										
		N	RC-1 cult	ure 3 2 und	epleted								
150-													
100-			l.										
50-													
0				188	Ş					_			
	25	200	500	1000	200	0	4000		[n	t]			

Overall Results for sample	e 12: <u>NRC-1 cultu</u>	re 3 2 undepleted		
RNA Area:	219.6	rRNA Ratio [23s / 16s]:	2.4	
RNA Concentration:	329 ng/µl	RNA Integrity Number (RIN):	N/A	(B.02.08)

Fragmer	nt table for sampl	e12: <u>NRC-1</u>	NRC-1 culture 3 2 undepleted					
Name	Start Size [nt]	End Size [nt]	Area	% of total Area				
16S	645	841	61.2	27.9				
23S	1,140	1,481	148.6	67.7				



Assay Class: Data Path:	Prokaryote Total RNA Nano C:\ents and Settings\Bioanalyzer\2012-03-21\2012-03-21_006.xad					Cre Moo	eated: dified:	3/21/2012 4:17:14 P 3/21/2012 4:41:04 P		
Run Logbook										
Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host		
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		3/21/2012 4:41:01 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Run started on port 1 (File: C:\Documents and Settings\Bioanal yzer\2012-03-21 \2012-03-21_00 6.xad)	L	Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Product Number : G2938B		Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Name :		Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Vendor : Agilent Technologies	:	Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Serial# : DE13701086		Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Firmware : C.01.069		Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard Time	UC Davis	D8XSMGH1		
Cartridge : Electrode		Instrument	Run		3/21/2012 4:17:19 PM	(GMT07:00) Pacific Standard	UC Davis	D8XSMGH1		

Time

3/21/2012 4:17:14 PM Μ