2014-03-04_	_005.xad			Page 1 of 8
Assay Class: Data Path: Electrophore	DNA 12000 C:\ents and Settings\Bioanalyzer\2014-03-04\2014- esis File Run Summary	Created Modified		
		Instrument Informa	ition:	
		Instrument Name:	DE13701086	Firmware: C.01.069
		Serial#:	DE13701086	Type: G2938B
		Assay Information:		
		Assay Origin Path:	C:\Program Files\Agilent\21 expert\assays\dsDNA\DNA	
		Assay Class:	DNA 12000	
		Version:	2.4	
		Assay Comments:	DNA Analysis 100 -12000 bp	)
			© Copyright 2003-2009 Agi	lent Technologies, Inc.
		Chip Information:		- /

Pp1290 gTube 4950

CaCal35 gTube 4950

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

LCN13 gTube 4950

LCN11 gTube 4950

2014-03-04_0	005.xad					Page	2 of	8
Assay Class: DNA 12000 Data Path: C:\ents and Settings\Bioanalyzer\2014-03-04\2014- Electrophoresis File Run Summary (Chip Summary)			1-03-04_	_005.xad	Created: Modified:	3/4/2014 3/4/2014		
Sample Name Pp1290 gTube 4 CaCal35 gTube 4 LCN13 gTube 49 LCN11 gTube 49	<b>Sample Comment</b> 950 4950 950		Status	Observation	Result Label	Re	sult Col	or
Chip Lot #			Reag	jent Kit Lot #				

# Chip Comments :

2014-03-04_	Page 3 of 8						
Assay Class: Data Path: Electrophore	DNA 12000 C:\ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_005.xad esis Assay Details	Created: Modified:	3/4/2014 4:09:13 PM 3/4/2014 4:31:15 PM				
General Analysis Settings							

Number of Available Sample and Ladder Wells (Max.) : 13 Minimum Visible Range [s] : 20 Maximum Visible Range [s] : 99 Start Analysis Time Range [s] : 20 End Analysis Time Range [s] : 98.95 Ladder Concentration  $[ng/\mu I]$  : 44 Uses Standard Area for Ladder Fragments Lower Marker Concentration  $[ng/\mu I]$  : 8.3 Upper Marker Concentration  $[ng/\mu I]$  : 4.2 Used Upper Marker for Quantitation This is a Qualitative Assay Only Standard Curve Fit is Point to Point Show Data Aligned to Lower and Upper Marker

### **Integrator Settings**

Integration Start Time [s] : 20 Integration End Time [s] : 98.95 Slope Threshold : 0.8 Height Threshold [FU] : 20 Area Threshold : 0.1 Width Threshold [s] : 0.5 Baseline Plateau [s] : 0.5

#### **Filter Settings**

Filter Width [s] : 0.5 Polynomial Order : 4

#### Ladder

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

Pp1290 gTube 4950	-

Average Conc. Area C Size

9.33

6.21

[bp] [bp] Size [bp] [ng/µl]

29,917 11,642

6,174 13,282 8,834

942

From To

av Class:	DNA 12000	

Assay Class: Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-04\2014-03-04\_005.xad

- **Electropherogram Summary** 
  - Ladder

Peak tab	le for Lad	der		
Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observation s
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

Pp1290 gTube 4950		 Peak	tał	ole for sa	mple 1:	Pp1290 gTube 4950			
		Peak Size [bp		) Conc. [ng/µl]	Molarity [nmol/l]	Observation s			
		1	∢	50	8.30	251.5	Lower Marker		
		2	•	17,000	4.20	0.4	Upper Marker		
Overall Results for sample 1 :	Pp1290 gTube 4950								
Number of peaks found:	0								
Area 1:	55.4								
Area 2:	82.8								
Region table for sample 1 :	<u>Pp1290 gTube 4950</u>								

% of Total

92

61

o distribution l in CV [%]

82.8 50.2

55.4 🗖 19.1

3/4/2014 4:09:13 PM 3/4/2014 4:31:15 PM

Letropherogram Summary Continued       CaCal35 gTube 4950                GCal35 gTube 4950               Back Table for sample 2: CaCal35 gTube 4950                 verail Results for sample 2: CaCal35 gTube 4950             more or paske found:		DNA 12000 C:\ents and S	ettings\Bioanalv	zer\2014-03-04\20	14-03-04 0	05.xad		Create Modifie	ed: 3/4/2014 4:09:13 PM ed: 3/4/2014 4:31:15 PM
verail Results for sample 2:       CaCa125 grube 4950         verail Results for sample 3:       CON13 grube 4950         verail Res									
Peak       Size [bp] Conc.       Molarity       Observation         1       4       50       8.30       231.5       Lower Marker         2       8.60       10.63       1.8       3       17.000       4.20       0.4       Upper Marker         2       8.60       10.63       1.8       3       17.000       4.20       0.4       Upper Marker         2       8.60       10.63       1.8       3       17.000       4.20       0.4       Upper Marker         2       8.64       Size [bp] [cg/µ]       Area       CSize       % of Total       0       4.20       0.4       Upper Marker         302       12.323 0.208       7.33       0.4       12.8       49       9       9       Peak table for sample 3 :       LCN13 glube 4950         Versal Results for sample 3 :       LCN13 glube 4950       10       1       4       5.30       231.5       Lower Marker         2       10       8.30       231.5       Lower Marker       2       17.00       4.20       0.4       Upper Marker		CaCal3	85 qTube 4950		Peak	able for sa	mple 2 :	CaCal35 qTu	be 4950
verail Results for sample 2:       CaCal35 gTube 4950         micer of pasks found:       1         a:       0.4         upper Marker         gion table for sample 2:       CaCal35 gTube 4950         (b)       (b)         ya       10.03         ya       10.03         ya       11.02         ya       11.02         ya       11.02         ya       11.02         ya       11.02         ya       12.02         ya       12.02 </th <th></th> <th></th> <th>- <b>-</b></th> <th></th> <th>Peak</th> <th>Size [bɪ</th> <th>o] Conc. [ng/µl]</th> <th>Molarity [nmol/l]</th> <th>Observation s</th>			- <b>-</b>		Peak	Size [bɪ	o] Conc. [ng/µl]	Molarity [nmol/l]	Observation s
3          17,000       4.20       0.4       Upper Marker         with a it marks          6.4          6.4          6.4          6.4         gion table for sample 2:          CACl35 gTube 4950         of distribution         of distribution         in CV (%)         result account of the distribution         in CV (%)         result for sample 3:          ICN13 gTube 4950           Peak table for sample 3:          ICN13 gTube 4950          result for sample 3:          ICN13 gTube 4950           Peak table for sample 3:          ICN13 gTube 4950          result account is for sample 3:          ICN13 gTube 4950           Peak table for sample 3:          ICN13 gTube 4950          result for sample 3:          ICN13 gTube 4950           Peak table for sample 3:          ICN13 gTube 4950          result for sample 3:          ICN13 gTube 4950           Peak table for sample 3:          ICN13 gTube 4950          result for sample 3:          ICN13 gTube 4950           O   A20         O.4         Upper Marker          result for sample 3:          ICN13 gTube 4950           O   A20         O.4         Upper Marker          result for sample 3:          ICN13 gTube 4950         O         O         O									
mber of peaks found: a : B6.4 Gacal35 gTube 4950 LCN13 gTube 4950 rerail Results for sample 3 : LCN13 gTube 4950 rerail Results for sample 3 : LCN13 gTube 4950 mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 rerail Results for sample 3 : LCN13 gTube 4950 mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 mor of Average Conc. Area C Size % of Total o distribution Mer of peaks found: a : S75 gion table for sample 3 : LCN13 gTube 4950 mor of Average Conc. Area C Size % of Total o distribution					3	17,000	4.20	0.4	Upper Marker
es l: 65. gion table for sample 3 : Conc. Area C Size % of Total o distribution l in CV (%) 22 12,323 9,268 7.33 86.4 ■ 12.8 49 LCN13 gTube 4950 Verall Results for sample 3 : LCN13 gTube 4950		-	<u>CaCal35 gTube</u>	4950					
Form To Average Conc. Area C Size % of Total   (bp) Size (bp) (ing/µ) a distribution i index   922 12,323 9,268 7.33 86.4 12.8 49   Peak table for sample 3 :   LCN13 gTube 4950 Peak table for sample 3 : LCN13 gTube 4950   Peak table for sample 3 : LCN13 gTube 4950   verall Results for sample 3 : LCN13 gTube 4950   verall Results for sample 3 : LCN13 gTube 4950   under of peaks found: 0   a: 37.5   egion table for sample 3 : LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   Verage Conc.   Yere and Results for sample 3 :   LCN13 gTube 4950   Yere and Results for sample 3 :   Verage Conc.   Yere and Ye	rea 1:	86							
332       12,323 9,268       7,33       86.4       12.8       49         LCN13 gTube 4950 <ul> <li>Peak table for sample 3 : LCN13 gTube 4950</li> <li>Peak Size [bp] Conc.</li> <li>Molarity</li> <li>Observation</li> <li>[mon /1]</li> <li>s</li> <li>251.5</li> <li>Lower Marker</li> <li>1</li> <li>50</li> <li>8.30</li> <li>251.5</li> <li>Lower Marker</li> <li>1</li> <li>10</li> <li>4.20</li> <li>0.4</li> <li>Upper Marker</li> </ul> <li>Inter or peaks found:             <ul> <li>0</li> <li>37.5</li> <li>egion table for sample 3 : LCN13 gTube 4950</li> <li>for 37.5</li> <li>egion table for sample 3 : LCN13 gTube 4950</li> <li>for 37.5</li> <li>egion table for sample 3 : LCN13 gTube 4950</li> <li>for 37.5</li> <li>for 37.5</li> <li>egion table for sample 3 : LCN13 gTube 4950</li> <li>for 37.5</li> <li>for 37.5</li> <li>for 37.5</li> </ul> </li>	rom To Ave	erage Conc. Are	a C Size o distribution						
Peak       Size [bp] Conc. [ing/µ]       Molarity [inmol/l]       Observation s         1       4       50       8.30       251.5       Lower Marker         2       17,000       4.20       0.4       Upper Marker         2       17,000       4.20       0.4       Upper Marker         wrater       0       37.5       egion table for sample 3 :       LCN13 gTube 4950         rom To Average Conc.       Area C Size       % of Total o distribution       % of Total o distribution	392 12,323 9,26	8 7.33 86.4		49					
Peak       Size [bp] Conc. [ng/µ]       Molarity [nmol/I]       Observation s         1       50       8.30       251.5       Lower Marker         2       17,000       4.20       0.4       Upper Marker         2       17,000       4.20       0.4       Upper Marker         a 1:       37.5       37.5       37.5       37.5         agion table for sample 3 :       LCN13 gTube 4950       LCN13 gTube 4950       LCN13 gTube 4950         om To       Average Conc.       Area C Size       % of Total       Upper Variance         p]       [bp] Size [bp]       [ng/µ]       o distribution       Upper Variance									
[ng/µ]       [nmol/l]       s         1       50       8.30       251.5       Lower Marker         2       17,000       4.20       0.4       Upper Marker         2       17,000       4.20       0.4       Upper Marker         umber of peaks found:       0       0       5       5         egion table for sample 3 :       LCN13 gTube 4950       5       5       5         rom To Average Conc.       Area C Size       % of Total o distribution       5       5       5									
2 17,000 4.20 0.4 Upper Marker verall Results for sample 3 : LCN13 gTube 4950 umber of peaks found: 0 ea 1: 37.5 egion table for sample 3 : LCN13 gTube 4950 rom To Average Conc. Area C Size % of Total p] [bp] Size [bp] [ng/µ] o distribution		LCN1	3 gTube 4950				-	-	
verall Results for sample 3 :       LCN13 gTube 4950         mber of peaks found:       0         ea 1:       37.5         egion table for sample 3 :       LCN13 gTube 4950         om To Average Conc. p] [bp] Size [bp] [ng/µl]       Area C Size % of Total o distribution		LCN1:	3 gTube 4950		Peak	Size [bp	ο] Conc. [ng/μl]	Molarity [nmol/l]	Observation s
umber of peaks found: 0 ea 1: 37.5 egion table for sample 3 : <u>LCN13 gTube 4950</u> rom To Average Conc. Area C Size % of Total op] [bp] Size [bp] [ng/µl] o distribution		LCN1:	3 gTube 4950		Peak	Size [bp	ο] Conc. [ng/μl] 8.30	<b>Molarity</b> [nmol/l] 251.5	Observation S Lower Marker
egion table for sample 3 : <u>LCN13 gTube 4950</u> rom To Average Conc. Area C Size % of Total pp] [bp] Size [bp] [ng/µl] o distribution			-		Peak	Size [bp	ο] Conc. [ng/μl] 8.30	<b>Molarity</b> [nmol/l] 251.5	Observation S Lower Marker
rom To Average Conc. Area C Size % of Total pp] [bp] Size [bp] [ng/µl] o distribution		for sample 3 :	-	950	Peak	Size [bp	ο] Conc. [ng/μl] 8.30	<b>Molarity</b> [nmol/l] 251.5	Observation S Lower Marker
	umber of peaks fou rea 1:	for sample 3 : und: 0 37.			Peak	Size [bp	ο] Conc. [ng/μl] 8.30	<b>Molarity</b> [nmol/l] 251.5	Observation S Lower Marker

2014-03-04_	_005.xad									Page	6 of	8
Assay Class: DNA 12000 Data Path: C:\ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_005.xad Electropherogram Summary Continued				Created: 3/4/2014 4:09:1 Modified: 3/4/2014 4:31:1								
	LC	CN11 gTube 4950		Peak	tał	ole for sa	mple 4 :	LCN11 gTub	e 4950	<u>D</u>		
				Peak		Size [bp	o] Conc. [ng/µl]	Molarity [nmol/l]	Ob: s	servation		
				1	∢	50	8.30	251.5	-	ver Marker		
				2	•	17,000	4.20	0.4	Upp	ver Marker		
<b>Overall Results</b>	for sample 4 :	LCN11 gTube 4	950									
Number of peaks fou	ınd:	0										
Area 1: Region table for	r samnle 4 ·	67.5 LCN11 qTube 495	<b>`</b>									
From To Ave	erage Conc. e[bp] [ng/µl]	Area C Size o distribution I in CV [%] 67.5 20.4	<b>% of Total</b>									

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	DNA 12000 C:\ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_005.xad	Created: Modified:	3/4/2014 4:09:13 PM 3/4/2014 4:31:15 PM	

## Gel Image

2014-03-04_005.xad		Page 8 of 8	
Assay Class: Data Path:	DNA 12000 C:\ents and Settings\Bioanalyzer\2014-03-04\2014-03-04_005.xad	Created: Modified:	3/4/2014 4:09:13 PM 3/4/2014 4:31:15 PM
Invalid Samples			
Sample 5 has not been run, no results available.			
Sample 6 has not been run, no results available.			
Sample 7 has not been run, no results available.			
Sample 8 has not been run, no results available.			

Sample 9 has not been run, no results available. Sample 10 has not been run, no results available. Sample 11 has not been run, no results available. Sample 12 has not been run, no results available.