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B11	FH3221-2110003	3700 nt to 4800 nt	112.804	67.4	86.4948	4069	3.99
B11	FH3221-2110003	4800 nt to 13000 nt	3.8348	2.3	1.9179	6238	20.91
C1	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
C1	Blank	4800 nt to 13000 nt	0.014	0.7	0.0048	9167	1.12
C2	Blank	3700 nt to 4800 nt	0.5988	3	0.4367	4277	9.06
C2	Blank	4800 nt to 13000 nt	0.4809	2.4	0.2819	5322	11.45
C3	Blank	3700 nt to 4800 nt	0.0446	1.6	0.032	4344	8.37
C3	Blank	4800 nt to 13000 nt	0.0413	1.5	0.0262	4912	2.37
C4	Blank	3700 nt to 4800 nt	0.0061	1	0.0043	4398	9.84
C4	Blank	4800 nt to 13000 nt	0.0245	4.2	0.0117	6509	29.4
C5	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
C5	Blank	4800 nt to 13000 nt	0	0 NaN	NaN	NaN	
C11	FH3221-2110003	3700 nt to 4800 nt	110.709	65.5	85.0158	4063	3.98
C11	FH3221-2110003	4800 nt to 13000 nt	3.9382	2.3	1.9769	6215	20.35
D1	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
D1	Blank	4800 nt to 13000 nt	0	0 NaN	NaN	NaN	
D2	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
D2	Blank	4800 nt to 13000 nt	0.0026	0.1	0.0008	9803	0.12
D3	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
D3	Blank	4800 nt to 13000 nt	0	0 NaN	NaN	NaN	
D4	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
D4	Blank	4800 nt to 13000 nt	0.0175	100	0.0059	9197	3.56
D5	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	
D5	Blank	4800 nt to 13000 nt	0.0021	8.4	0.0007	9210	0.21
D6	Blank	3700 nt to 4800 nt	0.013	97.6	0.0088	4579	0.5
D6	Blank	4800 nt to 13000 nt	0.0003	2.4	0.0001	8653	0
D7	Blank	3700 nt to 4800 nt	0	0 NaN	NaN	NaN	

D7	D7	Blank	4800 nt to 13000 nt	0.0023	100	0.0008	9214	1.58
D8	D8	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN
D8	D8	Blank	4800 nt to 13000 nt	0.0009	100	0.0003	9037	0.13
D9	D9	Blank	3700 nt to 4800 nt	0.1172	5.7	0.0846	4324	7.11
D9	D9	Blank	4800 nt to 13000 nt	0.1287	6.3	0.0705	5695	15.88
D10	D10	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN
D10	D10	Blank	4800 nt to 13000 nt	0.0063	100	0.0022	8843	2.49
D11	D11	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN
D11	D11	Blank	4800 nt to 13000 nt	0.003	100	0.0011	8259	6.53
D12	D12	Ladder						
D12								

Laboratories Branch

Written By [Redacted]
Authorised [Redacted]

Date Validated 10/06/2021
Validation Due 10/06/2022
Validation Status **Valid for use**
Analyst [Redacted]
Assay Date 26/10/2021

Revision no. 1
LIMS number 33325

Pass/Fail Parameters

minimum	cut off	maximum
[Redacted]	[Redacted]	[Redacted]
result >	[Redacted]	[Redacted]

REPLICATE	Well	Sample ID	Range	ng/ul	% Total	nmole/L	Avg. Size	%CV	% INTEGRITY SUMMARY				COMMENTS	
									Sample ID	Average	stdev	%CV		
1	A1	Blank	3700 nt to 4800 nt	0.0051	18.2	0.0034	4725	0.8						
2	B1	Blank	3700 nt to 4800 nt	0.1394	1	0.1052	4135	9.07	Blank	6.40	10.23	159.86	FAIL	
3	C1	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
1	A2	Blank	3700 nt to 4800 nt	0.0074	4.7	0.0048	4746	0.34						
2	B2	Blank	3700 nt to 4800 nt	0.7625	3.4	0.5605	4244	9.2	Blank	3.70	0.89	24.02	FAIL	
3	C2	Blank	3700 nt to 4800 nt	0.5988	3	0.4367	4277	9.06						
1	A3	Blank	3700 nt to 4800 nt	0.1751	3.5	0.1294	4223	8.67						
2	B3	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	1.70	1.75	103.07	FAIL	
3	C3	Blank	3700 nt to 4800 nt	0.0446	1.6	0.032	4344	8.37						
1	A4	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
2	B4	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	0.33	0.58	173.21	FAIL	
3	C4	Blank	3700 nt to 4800 nt	0.0061	1	0.0043	4398	9.84						
1	A5	Blank	3700 nt to 4800 nt	0.0133	0.8	0.0093	4476	3.79						
2	B5	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	0.27	0.46	173.21	FAIL	
3	C5	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
1	A11	FH3221-2110003737	3700 nt to 4800 nt	107.7596	67.4	82.7493	4063	3.97						
2	B11	FH3221-2110003737	3700 nt to 4800 nt	112.8037	67.4	86.4948	4069	3.99	FH3221-2110003737	66.77	1.10	1.64	PASS	
3	C11	FH3221-2110003737	3700 nt to 4800 nt	110.709	65.5	85.0158	4063	3.98						
1	D1	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
2	D2	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	0.00	0.00	#DIV/0!	FAIL	
3	D3	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
1	D4	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
2	D5	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	32.53	56.35	173.21	FAIL	
3	D6	Blank	3700 nt to 4800 nt	0.013	97.6	0.0088	4579	0.5						
1	D7	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN						
2	D8	Blank	3700 nt to 4800 nt	0	0	NaN	NaN	NaN	Blank	1.90	3.29	173.21	FAIL	
3	D9	Blank	3700 nt to 4800 nt	0.1172	5.7	0.0846	4324	7.11						

REPLICATE	Well	Sample ID	Range	ng/ul	% Total	nmole/L	Avg. Size	%CV	% LATE MIGRATING SPECIES SUMMARY				COMMENTS	
									Sample ID	Average	stdev	%CV		
1	A1	Blank	4800 nt to 13000 nt	0.0103	36.4	0.005	6366	23.49						
2	B1	Blank	4800 nt to 13000 nt	0.5934	4.2	0.2817	6572	23.12	Blank	13.77	19.68	142.95		
3	C1	Blank	4800 nt to 13000 nt	0.014	0.7	0.0048	9167	1.12						
1	A2	Blank	4800 nt to 13000 nt	0.0297	18.8	0.014	6618	33.15						
2	B2	Blank	4800 nt to 13000 nt	1.2644	5.6	0.704	5603	12.19	Blank	8.93	8.69	97.31		
3	C2	Blank	4800 nt to 13000 nt	0.4809	2.4	0.2819	5322	11.45						
1	A3	Blank	4800 nt to 13000 nt	0.3204	6.3	0.1735	5760	19.6						
2	B3	Blank	4800 nt to 13000 nt	0.0027	0	0.0011	7404	0.15	Blank	2.60	3.29	126.57		
3	C3	Blank	4800 nt to 13000 nt	0.0413	1.5	0.0262	4912	2.37						

1	A4	Blank	4800 nt to 13000 nt	0.0112	3.8	0.0039	9022	9.65					
2	B4	Blank	4800 nt to 13000 nt	0.0063	1.1	0.0028	7155	6.27	Blank	3.03	1.69	55.59	
3	C4	Blank	4800 nt to 13000 nt	0.0245	4.2	0.0117	6509	29.4					
1	A5	Blank	4800 nt to 13000 nt	0.0775	4.9	0.0321	7544	26.91					
2	B5	Blank	4800 nt to 13000 nt	0.023	0.5	0.0077	9394	0.62	Blank	1.80	2.70	149.79	
3	C5	Blank	4800 nt to 13000 nt	0	0	NaN	NaN	NaN					
1	A11	FH3221-2110003737	4800 nt to 13000 nt	3.5233	2.2	1.6534	6648	25.21					
2	B11	FH3221-2110003737	4800 nt to 13000 nt	3.8348	2.3	1.9179	6238	20.91	FH3221-2110003737	2.27	0.06	2.55	
3	C11	FH3221-2110003737	4800 nt to 13000 nt	3.9382	2.3	1.9769	6215	20.35					
1	D1	Blank	4800 nt to 13000 nt	0	0	NaN	NaN	NaN					
2	D2	Blank	4800 nt to 13000 nt	0.0026	0.1	0.0008	9803	0.12	Blank	0.03	0.06	173.21	
3	D3	Blank	4800 nt to 13000 nt	0	0	NaN	NaN	NaN					
1	D4	Blank	4800 nt to 13000 nt	0.0175	100	0.0059	9197	3.56					
2	D5	Blank	4800 nt to 13000 nt	0.0021	8.4	0.0007	9210	0.21	Blank	36.93	54.70	148.10	
3	D6	Blank	4800 nt to 13000 nt	0.0003	2.4	0.0001	8653	0					
1	D7	Blank	4800 nt to 13000 nt	0.0023	100	0.0008	9214	1.58					
2	D8	Blank	4800 nt to 13000 nt	0.0009	100	0.0003	9037	0.13	Blank	68.77	54.10	78.67	
3	D9	Blank	4800 nt to 13000 nt	0.1287	6.3	0.0705	5695	15.88					

This tab is only to be used if a replicate needs to be excluded from the analysis.

Enter raw data directly into this table. All averages/ pass fail will be calculated automatically using the pass/fail parameters entered in the Calculations tab.

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	% INTEGRITY SUMMARY				COMMENTS	
									Sample ID	Average	stdev	%CV		
1									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Pass/Fail Parameters		
minimum	cut off	maximum
result >>		

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	% LATE MIGRATING SPECIES SUMMARY			COMMENTS
									Sample ID	Average	%CV	
1									0	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	
1									0	#DIV/0!	#DIV/0!	
2									0	#DIV/0!	#DIV/0!	
3									0	#DIV/0!	#DIV/0!	

Pass/Fail Parameters		
minimum	cut off	maximum
█	█	█

VALIDATION DATA

Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV
A1	sample1-rep1	3500 nt to 5389 nt	5	10	12.5	4079	2
A1	sample1-rep1	5389 nt to 13000 nt	0.5	1	3.5	6774	0.2
A2	sample2-rep1	3500 nt to 5389 nt	10	20	22.5	4053	4
A2	sample2-rep1	5389 nt to 13000 nt	1	2	4.5	6916	0.4
A3	sample3-rep1	3500 nt to 5389 nt	15	30	32.5	4045	6
A3	sample3-rep1	5389 nt to 13000 nt	1.5	3	5.5	6870	0.6
A4	sample4-rep1	3500 nt to 5389 nt	20	40	42.5	4089	8
A4	sample4-rep1	5389 nt to 13000 nt	2	4	6.5	7320	0.8
A5	sample5-rep1	3500 nt to 5389 nt	25	50	52.5	4061	10
A5	sample5-rep1	5389 nt to 13000 nt	2.5	5	7.5	7135	1
A6	sample6-rep1	3500 nt to 5389 nt	30	60	62.5	4009	12
A6	sample6-rep1	5389 nt to 13000 nt	3	6	8.5	4079	1.2
A7	sample7-rep1	3500 nt to 5389 nt	35	70	72.5	4071	14
A7	sample7-rep1	5389 nt to 13000 nt	3.5	7	9.5	7717	1.4
A8	sample8-rep1	3500 nt to 5389 nt	40	80	82.5	4079	16
A8	sample8-rep1	5389 nt to 13000 nt	4	8	10.5	6774	1.6
A9	sample9-rep1	3500 nt to 5389 nt	45	90	92.5	4053	18
A9	sample9-rep1	5389 nt to 13000 nt	4.5	9	11.5	6916	1.8
A10	sample10-rep1	3500 nt to 5389 nt	50	100	102.5	4045	20
A10	sample10-rep1	5389 nt to 13000 nt	5	10	12.5	6870	2
A11	sample11-rep1	3500 nt to 5389 nt	55	110	112.5	4089	22
A11	sample11-rep1	5389 nt to 13000 nt	5.5	11	13.5	7320	2.2
A12	sample12-rep1	3500 nt to 5389 nt	60	120	122.5	4061	24
A12	sample12-rep1	5389 nt to 13000 nt	6	12	14.5	7135	2.4
B1	sample1-rep2	3500 nt to 5389 nt	5.5	11	13.5	4091	2.2
B1	sample1-rep2	5389 nt to 13000 nt	1.05	2	4.6	5534	0.42
B2	sample2-rep2	3500 nt to 5389 nt	10.5	21	23.5	4061	4.2
B2	sample2-rep2	5389 nt to 13000 nt	1.55	3	5.6	4079	0.62
B3	sample3-rep2	3500 nt to 5389 nt	15.5	31	33.5	4033	6.2
B3	sample3-rep2	5389 nt to 13000 nt	2.05	4	6.6	6807	0.82
B4	sample4-rep2	3500 nt to 5389 nt	20.5	41	43.5	4069	8.2
B4	sample4-rep2	5389 nt to 13000 nt	2.55	5	7.6	7000	1.02
B5	sample5-rep2	3500 nt to 5389 nt	25.5	51	53.5	4067	10.2
B5	sample5-rep2	5389 nt to 13000 nt	3.05	6	8.6	7094	1.22
B6	sample6-rep2	3500 nt to 5389 nt	30.5	61	63.5	3998	12.2
B6	sample6-rep2	5389 nt to 13000 nt	3.55	7	9.6	5436	1.42
B7	sample7-rep2	3500 nt to 5389 nt	35.5	71	73.5	4049	14.2
B7	sample7-rep2	5389 nt to 13000 nt	4.05	8	10.6	7570	1.62
B8	sample8-rep2	3500 nt to 5389 nt	40.5	81	83.5	4091	16.2
B8	sample8-rep2	5389 nt to 13000 nt	4.55	9	11.6	5534	1.82
B9	sample9-rep2	3500 nt to 5389 nt	45.5	91	93.5	4061	18.2
B9	sample9-rep2	5389 nt to 13000 nt	5.05	10	12.6	4079	2.02
B10	sample10-rep2	3500 nt to 5389 nt	50.5	101	103.5	4033	20.2
B10	sample10-rep2	5389 nt to 13000 nt	5.55	11	13.6	6807	2.22
B11	sample11-rep2	3500 nt to 5389 nt	55.5	111	113.5	4069	22.2
B11	sample11-rep2	5389 nt to 13000 nt	6.05	12	14.6	7000	2.42
B12	sample12-rep2	3500 nt to 5389 nt	60.5	121	123.5	4067	24.2
B12	sample12-rep2	5389 nt to 13000 nt	6.55	13	15.6	7094	2.62
C1	sample1-rep3	3500 nt to 5389 nt	6	12	14.5	4089	2.4
C1	sample1-rep3	5389 nt to 13000 nt	1.6	3	5.7	5684	0.64
C2	sample2-rep3	3500 nt to 5389 nt	11	22	24.5	4065	4.4
C2	sample2-rep3	5389 nt to 13000 nt	2.1	4	6.7	5530	0.84
C3	sample3-rep3	3500 nt to 5389 nt	16	32	34.5	4037	6.4
C3	sample3-rep3	5389 nt to 13000 nt	2.6	5	7.7	6551	1.04
C4	sample4-rep3	3500 nt to 5389 nt	21	42	44.5	4061	8.4
C4	sample4-rep3	5389 nt to 13000 nt	3.1	6	8.7	6970	1.24
C5	sample5-rep3	3500 nt to 5389 nt	26	52	54.5	4070	10.4
C5	sample5-rep3	5389 nt to 13000 nt	3.6	7	9.7	6740	1.44
C6	sample6-rep3	3500 nt to 5389 nt	31	62	64.5	4097	12.4
C6	sample6-rep3	5389 nt to 13000 nt	4.1	8	10.7	8653	1.64
C7	sample7-rep3	3500 nt to 5389 nt	36	72	74.5	4060	14.4
C7	sample7-rep3	5389 nt to 13000 nt	4.6	9	11.7	8404	1.84
C8	sample8-rep3	3500 nt to 5389 nt	41	82	84.5	4089	16.4
C8	sample8-rep3	5389 nt to 13000 nt	5.1	10	12.7	5684	2.04
C9	sample9-rep3	3500 nt to 5389 nt	46	92	94.5	4065	18.4
C9	sample9-rep3	5389 nt to 13000 nt	5.6	11	13.7	5530	2.24
C10	sample10-rep3	3500 nt to 5389 nt	51	102	104.5	4037	20.4
C10	sample10-rep3	5389 nt to 13000 nt	6.1	12	14.7	6551	2.44
C11	sample11-rep3	3500 nt to 5389 nt	56	112	114.5	4061	22.4
C11	sample11-rep3	5389 nt to 13000 nt	6.6	13	15.7	6970	2.64
C12	sample12-rep3	3500 nt to 5389 nt	61	122	124.5	4070	24.4

RESULTS FOR VALIDATION DATA

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	% INTEGRITY SUMMARY				
									Sample ID	Average	stdev	%CV	
	1 A1	sample1-rep1	3500 nt to 5389 nt	5	10	12.5	4079	2	sample1-rep1	11.00	1.00	9.09	FAIL
	2 B1	sample1-rep2	3500 nt to 5389 nt	5.5	11	13.5	4091	2.2					
	3 C1	sample1-rep3	3500 nt to 5389 nt	6	12	14.5	4089	2.4					
	1 A2	sample2-rep1	3500 nt to 5389 nt	10	20	22.5	4053	4	sample2-rep1	21.00	1.00	4.76	FAIL
	2 B2	sample2-rep2	3500 nt to 5389 nt	10.5	21	23.5	4061	4.2					
	3 C2	sample2-rep3	3500 nt to 5389 nt	11	22	24.5	4065	4.4					
	1 A3	sample3-rep1	3500 nt to 5389 nt	15	30	32.5	4045	6	sample3-rep1	31.00	1.00	3.23	FAIL
	2 B3	sample3-rep2	3500 nt to 5389 nt	15.5	31	33.5	4033	6.2					
	3 C3	sample3-rep3	3500 nt to 5389 nt	16	32	34.5	4037	6.4					
	1 A4	sample4-rep1	3500 nt to 5389 nt	20	40	42.5	4089	8	sample4-rep1	41.00	1.00	2.44	FAIL
	2 B4	sample4-rep2	3500 nt to 5389 nt	20.5	41	43.5	4069	8.2					
	3 C4	sample4-rep3	3500 nt to 5389 nt	21	42	44.5	4061	8.4					
	1 A5	sample5-rep1	3500 nt to 5389 nt	25	50	52.5	4061	10	sample5-rep1	51.00	1.00	1.96	FAIL
	2 B5	sample5-rep2	3500 nt to 5389 nt	25.5	51	53.5	4067	10.2					
	3 C5	sample5-rep3	3500 nt to 5389 nt	26	52	54.5	4070	10.4					
	1 A6	sample6-rep1	3500 nt to 5389 nt	30	60	62.5	4009	12	sample6-rep1	61.00	1.00	1.64	PASS
	2 B6	sample6-rep2	3500 nt to 5389 nt	30.5	61	63.5	3998	12.2					
	3 C6	sample6-rep3	3500 nt to 5389 nt	31	62	64.5	4097	12.4					
	1 A7	sample7-rep1	3500 nt to 5389 nt	35	70	72.5	4071	14	sample7-rep1	71.00	1.00	1.41	PASS
	2 B7	sample7-rep2	3500 nt to 5389 nt	35.5	71	73.5	4049	14.2					
	3 C7	sample7-rep3	3500 nt to 5389 nt	36	72	74.5	4060	14.4					
	1 A8	sample8-rep1	3500 nt to 5389 nt	40	80	82.5	4079	16	sample8-rep1	81.00	1.00	1.23	PASS
	2 B8	sample8-rep2	3500 nt to 5389 nt	40.5	81	83.5	4091	16.2					
	3 C8	sample8-rep3	3500 nt to 5389 nt	41	82	84.5	4089	16.4					
	1 A9	sample9-rep1	3500 nt to 5389 nt	45	90	92.5	4053	18	sample9-rep1	91.00	1.00	1.10	PASS
	2 B9	sample9-rep2	3500 nt to 5389 nt	45.5	91	93.5	4061	18.2					
	3 C9	sample9-rep3	3500 nt to 5389 nt	46	92	94.5	4065	18.4					
	1 A10	sample10-rep1	3500 nt to 5389 nt	50	100	102.5	4045	20	sample10-rep1	101.00	1.00	0.99	PASS
	2 B10	sample10-rep2	3500 nt to 5389 nt	50.5	101	103.5	4033	20.2					
	3 C10	sample10-rep3	3500 nt to 5389 nt	51	102	104.5	4037	20.4					
	1 A11	sample11-rep1	3500 nt to 5389 nt	55	110	112.5	4089	22	sample11-rep1	111.00	1.00	0.90	PASS
	2 B11	sample11-rep2	3500 nt to 5389 nt	55.5	111	113.5	4069	22.2					
	3 C11	sample11-rep3	3500 nt to 5389 nt	56	112	114.5	4061	22.4					
	1 A12	sample12-rep1	3500 nt to 5389 nt	60	120	122.5	4061	24	sample12-rep1	121.00	1.00	0.83	PASS
	2 B12	sample12-rep2	3500 nt to 5389 nt	60.5	121	123.5	4067	24.2					
	3 C12	sample12-rep3	3500 nt to 5389 nt	61	122	124.5	4070	24.4					
	1 D1	sample13-rep1	3500 nt to 5389 nt	65	130	15.5	4079	2.6	sample13-rep1	131.00	1.00	0.76	PASS
	2 D2	sample13-rep2	3500 nt to 5389 nt	65.5	131	25.5	3757	4.6					
	3 D3	sample13-rep3	3500 nt to 5389 nt	66	132	35.5	4079	6.6					
	1 D4	sample14-rep1	3500 nt to 5389 nt	70	140	45.5	4079	8.6	sample14-rep1	141.00	1.00	0.71	PASS
	2 D5	sample14-rep2	3500 nt to 5389 nt	70.5	141	55.5	5026	10.6					
	3 D6	sample14-rep3	3500 nt to 5389 nt	71	142	65.5	5240	12.6					
	1 D7	sample15-rep1	3500 nt to 5389 nt	75	150	75.5	5240	14.6	sample15-rep1	151.00	1.00	0.66	PASS
	2 D8	sample15-rep2	3500 nt to 5389 nt	75.5	151	85.5	4079	16.6					
	3 D9	sample15-rep3	3500 nt to 5389 nt	76	152	95.5	3757	18.6					
REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	% LATE MIGRATING SPECIES SUMMARY				
	1 A1	sample1-rep1	5389 nt to 13000 nt	0.5	1	3.5	6774	0.2	sample1-rep1	2.00	1.00	50.00	
	2 B1	sample1-rep2	5389 nt to 13000 nt	1.05	2	4.6	5534	0.					

C12	sample12-rep3	5389 nt to 13000 nt	7.1	14	16.7	6740	2.84
D1	sample13-rep1	3500 nt to 5389 nt	65	130	15.5	4079	2.6
D1	sample13-rep1	5389 nt to 13000 nt	2.15	13	6.8	4079	0.86
D2	sample13-rep2	3500 nt to 5389 nt	65.5	131	25.5	3757	4.6
D2	sample13-rep2	5389 nt to 13000 nt	2.65	14	7.8	9444	1.06
D3	sample13-rep3	3500 nt to 5389 nt	66	132	35.5	4079	6.6
D3	sample13-rep3	5389 nt to 13000 nt	3.15	15	8.8	4079	1.26
D4	sample14-rep1	3500 nt to 5389 nt	70	140	45.5	4079	8.6
D4	sample14-rep1	5389 nt to 13000 nt	3.65	14	9.8	4079	1.46
D5	sample14-rep2	3500 nt to 5389 nt	70.5	141	55.5	5026	10.6
D5	sample14-rep2	5389 nt to 13000 nt	4.15	15	10.8	6983	1.66
D6	sample14-rep3	3500 nt to 5389 nt	71	142	65.5	5240	12.6
D6	sample14-rep3	5389 nt to 13000 nt	4.65	16	11.8	6440	1.86
D7	sample15-rep1	3500 nt to 5389 nt	75	150	75.5	5240	14.6
D7	sample15-rep1	5389 nt to 13000 nt	5.15	15	12.8	6440	2.06
D8	sample15-rep2	3500 nt to 5389 nt	75.5	151	85.5	4079	16.6
D8	sample15-rep2	5389 nt to 13000 nt	5.65	16	13.8	4079	2.26
D9	sample15-rep3	3500 nt to 5389 nt	76	152	95.5	3757	18.6
D9	sample15-rep3	5389 nt to 13000 nt	6.15	17	14.8	9444	2.46
D10	Blank-rep1	3500 nt to 5389 nt	80	160	105.5	4079	20.6
D10	Blank-rep1	5389 nt to 13000 nt	6.65	16	15.8	4079	2.66
D11	Blank2-rep1	3500 nt to 5389 nt	80.5	161	115.5	4079	22.6
D11	Blank2-rep1	5389 nt to 13000 nt	7.15	17	16.8	4079	2.86
D12	Ladder	3500 nt to 5389 nt	81	162	125.5	5026	24.6
D12	Ladder	5389 nt to 13000 nt	7.65	18	17.8	6983	3.06

1 A8	sample8-rep1	5389 nt to 13000 nt	4	8	10.5	6774	1.6	sample8-rep1	9.00	1.00	11.11
2 B8	sample8-rep2	5389 nt to 13000 nt	4.55	9	11.6	5534	1.82				
3 C8	sample8-rep3	5389 nt to 13000 nt	5.1	10	12.7	5684	2.04				
1 A9	sample9-rep1	5389 nt to 13000 nt	4.5	9	11.5	6916	1.8	sample9-rep1	10.00	1.00	10.00
2 B9	sample9-rep2	5389 nt to 13000 nt	5.05	10	12.6	4079	2.02				
3 C9	sample9-rep3	5389 nt to 13000 nt	5.6	11	13.7	5530	2.24				
1 A10	sample10-rep1	5389 nt to 13000 nt	5	10	12.5	6870	2	sample10-rep1	11.00	1.00	9.09
2 B10	sample10-rep2	5389 nt to 13000 nt	5.55	11	13.6	6807	2.22				
3 C10	sample10-rep3	5389 nt to 13000 nt	6.1	12	14.7	6551	2.44				
1 A11	sample11-rep1	5389 nt to 13000 nt	5.5	11	13.5	7320	2.2	sample11-rep1	12.00	1.00	8.33
2 B11	sample11-rep2	5389 nt to 13000 nt	6.05	12	14.6	7000	2.42				
3 C11	sample11-rep3	5389 nt to 13000 nt	6.6	13	15.7	6970	2.64				
1 A12	sample12-rep1	5389 nt to 13000 nt	6	12	14.5	7135	2.4	sample12-rep1	13.00	1.00	7.69
2 B12	sample12-rep2	5389 nt to 13000 nt	6.55	13	15.6	7094	2.62				
3 C12	sample12-rep3	5389 nt to 13000 nt	7.1	14	16.7	6740	2.84				
1 D1	sample13-rep1	5389 nt to 13000 nt	2.15	13	6.8	4079	0.86	sample13-rep1	14.00	1.00	7.14
2 D2	sample13-rep2	5389 nt to 13000 nt	2.65	14	7.8	9444	1.06				
3 D3	sample13-rep3	5389 nt to 13000 nt	3.15	15	8.8	4079	1.26				
1 D4	sample14-rep1	5389 nt to 13000 nt	3.65	14	9.8	4079	1.46	sample14-rep1	15.00	1.00	6.67
2 D5	sample14-rep2	5389 nt to 13000 nt	4.15	15	10.8	6983	1.66				
3 D6	sample14-rep3	5389 nt to 13000 nt	4.65	16	11.8	6440	1.86				
1 D7	sample15-rep1	5389 nt to 13000 nt	5.15	15	12.8	6440	2.06	sample15-rep1	16.00	1.00	6.25
2 D8	sample15-rep2	5389 nt to 13000 nt	5.65	16	13.8	4079	2.26				
3 D9	sample15-rep3	5389 nt to 13000 nt	6.15	17	14.8	9444	2.46				

VALIDATION DATA

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV
1	A1	sample1-rep1	3500 nt to 5389 nt	5	10	12.5	4079	2
2	B1	sample1-rep2	3500 nt to 5389 nt	5.5	11	13.5	4091	2.2
3	C1	sample1-rep3	3500 nt to 5389 nt	6	12	14.5	4089	2.4
1	A2	sample2-rep1	3500 nt to 5389 nt	10	20	22.5	4053	4
2	B2	sample2-rep2	3500 nt to 5389 nt	10.5	21	23.5	4061	4.2
3	C2	sample2-rep3	3500 nt to 5389 nt	11	22	24.5	4065	4.4
1	A3	sample3-rep1	3500 nt to 5389 nt	15	30	32.5	4045	6
2	B3	sample3-rep2	3500 nt to 5389 nt	15.5	31	33.5	4033	6.2
3	C3	sample3-rep3	3500 nt to 5389 nt	16	32	34.5	4037	6.4
1	A4	sample4-rep1	3500 nt to 5389 nt	20	40	42.5	4089	8
2	B4	sample4-rep2	3500 nt to 5389 nt	20.5	41	43.5	4069	8.2
3	C4	sample4-rep3	3500 nt to 5389 nt	21	42	44.5	4061	8.4
1	A5	sample5-rep1	3500 nt to 5389 nt	25	50	52.5	4061	10
2	B5	sample5-rep2	3500 nt to 5389 nt	25.5	51	53.5	4067	10.2
3	C5	sample5-rep3	3500 nt to 5389 nt	26	52	54.5	4070	10.4
1	A6	sample6-rep1	3500 nt to 5389 nt	30	60	62.5	4009	12
2	B6	sample6-rep2	3500 nt to 5389 nt	30.5	61	63.5	3998	12.2
3	C6	sample6-rep3	3500 nt to 5389 nt	31	62	64.5	4097	12.4
1	A7	sample7-rep1	3500 nt to 5389 nt	35	70	72.5	4071	14
2	B7	sample7-rep2	3500 nt to 5389 nt	35.5	71	73.5	4049	14.2
3	C7	sample7-rep3	3500 nt to 5389 nt	36	72	74.5	4060	14.4

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV
1	A1	sample1-rep1	5389 nt to 13000 nt	0.5	1	3.5	6774	0.2
2	B1	sample1-rep2	5389 nt to 13000 nt	1.05	2	4.6	5534	0.42
3	C1	sample1-rep3	5389 nt to 13000 nt	1.6	3	5.7	5684	0.64
1	A2	sample2-rep1	5389 nt to 13000 nt	1	2	4.5	6916	0.4
2	B2	sample2-rep2	5389 nt to 13000 nt	1.55	3	5.6	4079	0.62
3	C2	sample2-rep3	5389 nt to 13000 nt	2.1	4	6.7	5530	0.84
1	A3	sample3-rep1	5389 nt to 13000 nt	1.5	3	5.5	6870	0.6
2	B3	sample3-rep2	5389 nt to 13000 nt	2.05	4	6.6	6807	0.82
3	C3	sample3-rep3	5389 nt to 13000 nt	2.6	5	7.7	6551	1.04
1	A4	sample4-rep1	5389 nt to 13000 nt	2	4	6.5	7320	0.8
2	B4	sample4-rep2	5389 nt to 13000 nt	2.55	5	7.6	7000	1.02
3	C4	sample4-rep3	5389 nt to 13000 nt	3.1	6	8.7	6970	1.24
1	A5	sample5-rep1	5389 nt to 13000 nt	2.5	5	7.5	7135	1
2	B5	sample5-rep2	5389 nt to 13000 nt	3.05	6	8.6	7094	1.22
3	C5	sample5-rep3	5389 nt to 13000 nt	3.6	7	9.7	6740	1.44
1	A6	sample6-rep1	5389 nt to 13000 nt	3	6	8.5	4079	1.2
2	B6	sample6-rep2	5389 nt to 13000 nt	3.55	7	9.6	5436	1.42
3	C6	sample6-rep3	5389 nt to 13000 nt	4.1	8	10.7	8653	1.64
1	A7	sample7-rep1	5389 nt to 13000 nt	3.5	7	9.5	7717	1.4
2	B7	sample7-rep2	5389 nt to 13000 nt	4.05	8	10.6	7570	1.62
3	C7	sample7-rep3	5389 nt to 13000 nt	4.6	9	11.7	8404	1.84

RESULTS FOR VALIDATION DATA

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	% INTEGRITY SUMMARY				
									Sample ID	Average	stdev	%CV	
1	A1	sample1-rep1	3500 nt to 5389 nt	5	10	12.5	4079	2	sample1-rep1	11.0	1.0	9.1	FAIL
2	B1	sample1-rep2	3500 nt to 5389 nt	5.5	11	13.5	4091	2.2					
3	C1	sample1-rep3	3500 nt to 5389 nt	6	12	14.5	4089	2.4					
1	A2	sample2-rep1	3500 nt to 5389 nt	10	20	22.5	4053	4	sample2-rep1	21.0	1.0	4.8	FAIL
2	B2	sample2-rep2	3500 nt to 5389 nt	10.5	21	23.5	4061	4.2					
3	C2	sample2-rep3	3500 nt to 5389 nt	11	22	24.5	4065	4.4					
1	A3	sample3-rep1	3500 nt to 5389 nt	15	30	32.5	4045	6	sample3-rep1	31.0	1.0	3.2	FAIL
2	B3	sample3-rep2	3500 nt to 5389 nt	15.5	31	33.5	4033	6.2					
3	C3	sample3-rep3	3500 nt to 5389 nt	16	32	34.5	4037	6.4					
1	A4	sample4-rep1	3500 nt to 5389 nt	20	40	42.5	4089	8	sample4-rep1	41.0	1.0	2.4	FAIL
2	B4	sample4-rep2	3500 nt to 5389 nt	20.5	41	43.5	4069	8.2					
3	C4	sample4-rep3	3500 nt to 5389 nt	21	42	44.5	4061	8.4					
1	A5	sample5-rep1	3500 nt to 5389 nt	25	50	52.5	4061	10	sample5-rep1	51.0	1.0	2.0	FAIL
2	B5	sample5-rep2	3500 nt to 5389 nt	25.5	51	53.5	4067	10.2					
3	C5	sample5-rep3	3500 nt to 5389 nt	26	52	54.5	4070	10.4					
1	A6	sample6-rep1	3500 nt to 5389 nt	30	60	62.5	4009	12	sample6-rep1	61.0	1.0	1.6	PASS
2	B6	sample6-rep2	3500 nt to 5389 nt	30.5	61	63.5	3998	12.2					
3	C6	sample6-rep3	3500 nt to 5389 nt	31	62	64.5	4097	12.4					
1	A7	sample7-rep1	3500 nt to 5389 nt	35	70	72.5	4071	14	sample7-rep1	71.0	1.0	1.4	PASS
2	B7	sample7-rep2	3500 nt to 5389 nt	35.5	71	73.5	4049	14.2					
3	C7	sample7-rep3	3500 nt to 5389 nt	36	72	74.5	4060	14.4					

REPLICATE	Well	Sample ID	Range	ng/uL	% Total	nmole/L	Avg. Size	%CV	Sample ID	Average	stdev	%CV	
1	A1	sample1-rep1	5389 nt to 13000 nt	0.5	1	3.5	6774	0.2	sample1-rep1	2.0	1.0	50.0	
2	B1	sample1-rep2	5389 nt to 13000 nt	1.05	2	4.6	5534	0.42					
3	C1	sample1-rep3	5389 nt to 13000 nt	1.6	3	5.7	5684	0.64					
1	A2	sample2-rep1	5389 nt to 13000 nt	1	2	4.5	6916	0.4	sample2-rep1	3.0	1.0	33.3	
2	B2	sample2-rep2	5389 nt to 13000 nt	1.55	3	5.6	4079	0.62					
3	C2	sample2-rep3	5389 nt to 13000 nt	2.1	4	6.7	5530	0.84					
1	A3	sample3-rep1	5389 nt to 13000 nt	1.5	3	5.5	6870	0.6	sample3-rep1	4.0	1.0	25.0	
2	B3	sample3-rep2	5389 nt to 13000 nt	2.05	4	6.6	6807	0.82					
3	C3	sample3-rep3	5389 nt to 13000 nt	2.6	5	7.7	6551	1.04					
1	A4	sample4-rep1	5389 nt to 13000 nt	2	4	6.5	7320	0.8	sample4-rep1	5.0	1.0	20.0	
2	B4	sample4-rep2	5389 nt to 13000 nt	2.55	5	7.6	7000	1.02					
3	C4	sample4-rep3	5389 nt to 13000 nt	3.1	6	8.7	6970	1.24					
1	A5	sample5-rep1	5389 nt to 13000 nt	2.5	5	7.5	7135	1	sample5-rep1	6.0	1.0	16.7	
2	B5	sample5-rep2	5389 nt to 13000 nt	3.05	6	8.6	7094	1.22					
3	C5	sample5-rep3	5389 nt to 13000 nt	3.6	7	9.7	6740	1.44					
1	A6	sample6-rep1	5389 nt to 13000 nt	3	6	8.5	4079	1.2	sample6-rep1	7.0	1.0	14.3	
2	B6	sample6-rep2	5389 nt to 13000 nt	3.55	7	9.6	5436	1.42					
3	C6	sample6-rep3	5389 nt to 13000 nt	4.1	8	10.7	8653	1.64					
1	A7	sample7-rep1	5389 nt to 13000 nt	3.5	7	9.5	7717	1.4	sample7-rep1	8.0	1.0	12.5	
2	B7	sample7-rep2	5389 nt to 13000 nt	4.05	8	10.6	7570	1.62					
3	C7	sample7-rep3	5389 nt to 13000 nt	4.6	9	11.7	8404	1.84					