

Paste & Analyze

Reanalyze

Reset

Linear Regression of Efficiency (LRE)

Add to Summary

Summary

Reset Summary

Cycle# Fc

1 1
2 13
3 -16
4 -19
5 -15
6 -20
7 -9
8 -1
9 -10
10 1
11 -3
12 2
13 3
14 -3
15 1
16 12
17 5
18 22
19 32
20 39
21 56
22 110
23 180
24 304
25 570
26 1041
27 1874
28 3298
29 5475
30 8336
31 11283
32 13733
33 15491
34 16669
35 17292
36 17490
37 17931
38 18020
39 18087
40 18249
41 18162
42 18328
43 18283
44 18378
45 18420
46 18344
47 18335
48 18499
49 18441
50 18532

LRE Plot (Ec vs. Fc)

2

deltaE: -5.39E-5

Emax: 96.1%

r2: 0.9991

Fmax: 17,850

☐ +Cycle☐ -Cycle

Start cycle: 29

LRE Window Size: 5

☐ +Cycle☐ -Cycle

Fo Plot (Fo vs. Fc)

3

Target Quantity

Average Fo (red circles): 2.60E-5 +/-0.45%

Numerical Summary (Red denotes the LRE window Fc)

C	Fc	pFc	Fo	%Av. Fo
27	1,874	1,848	2.64E-5	1.55%
28	3,298	3,297	2.60E-5	0.03%
29	5,475	5,492	2.59E-5	-0.44%
30	8,336	8,312	2.62E-5	0.53%
31	11,283	11,262	2.61E-5	0.51%
32	13,733	13,749	2.59E-5	-0.51%
33	15,491	15,494	2.60E-5	-0.14%
34	16,669	16,566	2.85E-5	9.44%
35	17,292	17,171	3.19E-5	22.52%
36	17,490	17,497	2.55E-5	-2.06%
37	17,931	17,668	-5.91E-5	-327.18%
38	18,020	17,757	-1.44E-5	-155.50%

Manual Ct Selection (illustrates conversion to No)

Slope: 4.05

Intercept: 13.79

r2: 0.9989

Cycle vs. Log(Fc)

6

Ft Selection

Ft (FU): 3,022 Ct: 27.89

Absolute Target Quantity

☒ ssDNA Target☐ dsDNA Target

Amp Size (bp): 100

OCF (FU/ng): 600

LRE-No: 789

Fo = Ft/(Emax+1)^Ct

Ct-Fo: 2.09E-5

Ct-No: 635

%Diff: -19.54%

Fc Plot (Fc vs. Cycle)

5

Predicted Fc: Circles

LRE Window Fc values: Red circles

LRE Window R2: 0.999993