



Page 1 of 6

Ver: 05.02.2019

Project: ELISA paper project

Date: 20.05.2020 Test No.: 2

Performed by: Dorothy Smith on: 22.05.2020 17:53

Approved by: on:



Page 2 of 6

Ver: 05.02.2019

# Sample pipetting scheme

	Abbr	Description	Position
1	std1	Standard1 (0.0005 mg/mL)	C-4, C-5, C-6
2	std2	Standard1 (0.0003 mg/mL)	F-4, F-5, F-6
3	<b>-</b>	Standard3 (0.002 mg/mL)	
<u> </u>	std3	, 5, ,	A-7, A-8, A-9
4	std4	Standard4 (0.003 mg/mL)	C-7, C-8, C-9
5	std5	Standard5 (0.004 mg/mL)	F-7, F-8, F-9
6	std6	Standard6 (0.005 mg/mL)	D-10, D-11, D-12
7	std7	Standard7 (0.01 mg/mL)	
8	std8	Standard8 (0.015 mg/mL)	
9	std9	Standard9 (0.02 mg/mL)	
10	std10	Standard10 (0.025 mg/mL)	
11	std11	Standard11 (0.03 mg/mL)	
12	std12	Standard12 (0.04 mg/mL)	
13	std13	Standard13 (0.05 mg/mL)	
14	std14	Standard14 (0.06 mg/mL)	
15	std15	Standard15 (0.08 mg/mL)	
16	std16	Standard16 (0.1 mg/mL)	
17	std17	Standard17 (0.2 mg/mL)	
18	std18	Standard18 (0.3 mg/mL)	
19	std19	Standard19 (0.4 mg/mL)	
20	std20	Standard20 (0.5 mg/mL)	
21	std21	-	
22	std22	-	
23	std23	-	
24	std24	-	
25	std25	-	
26	std26	-	
27	std27	-	
28	std28	-	
29	std29	-	
30	std30	-	
31	sam1	-	A-1, A-2, A-3
32	sam2	-	B-7, B-8, B-9
33	sam25	-	
34	sam26	-	
35	sam27	-	
-	sam28	-	
37	sam29	-	
$\vdash$	sam30	-	
	sam31	-	
$\vdash$	sam32	-	
	sam33	-	
$\vdash$	sam34	_	
_	sam35	-	
$\vdash$	sam36	-	
45	<b>-</b>	_	
$\vdash$	sam38	-	
47	sam39	<u> </u>	
48	<b>-</b>	<u>-</u>	
40	sam40	-	



Ver: 05.02.2019
Page 3 of 6

## Multiwell plate map

	1	2	3	4	5	6	7	8	9	10	11	12
A	BLQ	sam1	sam1	empty	empty	empty	std3	std3	std3	empty	empty	empty
В	sam4	sam4	sam4	empty	empty	empty	sam2	sam2	sam2	empty	empty	empty
С	empty	empty	empty	std1	std1	std1	std4	std4	std4	empty	empty	empty
D	empty	empty	empty	empty	empty	empty	sam3	sam3	sam3	std6	std6	std6
Е	empty											
F	empty	empty	empty	std2	std2	std2	std5	std5	std5	empty	empty	empty
G	empty											
Н	empty	BLQ										

#### **Initial measurement results**

	1	2	3	4	5	6	7	8	9	10	11	12
A	BLQ	1.307609	1.308786	1.213975	1.200574	1.185898	1.916499	2.001106	1.898378	3.525774	3.477452	3.21106
В	1.04875	1.050746	1.052007	1.276472	1.285824	1.276472	2.040102	2.058752	1.967178	3.701729	3.534246	3.09504
C	1.05369	1.052218	1.052428	1.333357	1.336027	1.337765	2.415243	2.479111	2.497025	3.250146	3.479192	3.11273
D	1.06279	1.059079	1.059079	1.425325	1.399759	1.428750	2.879740	2.888103	2.796867	3.529302	3.905165	3.62734
E	1.07412	1.071543	1.073903	1.461700	1.410297	1.450923	2.847382	2.737376	2.847667	3.593404	3.694333	3.76181
F	1.09111	1.086868	1.090024	1.583124	1.536950	1.547437	3.099683	3.091635	2.999663	3.650996	3.946780	3.78483
G	1.10484	1.108270	1.096146	1.598395	1.664126	1.624013	3.254049	3.224571	3.018923	3.638240	3.746043	3.8787
Н	1.12389	1.124007	1.123333	1.722712	1.802546	1.758041	3.424995	3.195680	3.138673	3.460801	3.717681	BLQ

### **Calibration standards**

Std. name	Number	Absorbance	Conc.	Variation
std1	3	1.3357	1.02	0.00136
std2	3	1.5557	1.04	0.01266
std3	3	1.9381	1.08	0.02293
std4	3	2.4635	1.22	0.01431
std5	3	3.0633	1.65	0.01489
std6	3	3.6839	7.39	0.04274

## Model: Logit 5PL diff\_evol fitting in ln\_ln system

Absorbance =  $D + ((A - D)/(1 + (Conc/C)^B)^E)$ 

#### **Model parameters**

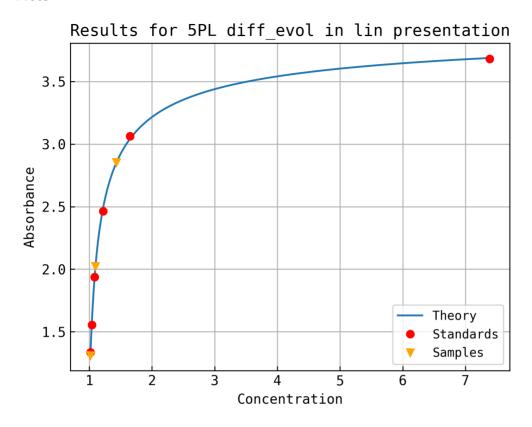
A= 0.126911, B= 1.452361, C= 0.032156, D= 1.544447, E= 0.296749

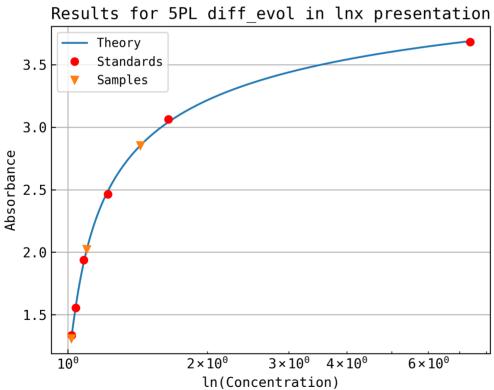
### **Model diagnostics**

The Residual Sum of Squares  $\mathbf{RSS} = 5\text{e-}05$ Coefficient of Determination  $\mathbf{R^2} = 0.999614$ Akaike Information Criterion  $\mathbf{AIC} = -49.448793$ Bayesian Information Criterion  $\mathbf{BIC} = -50.489996$ Coefficient of Correlation  $\mathbf{r} = 0.999807$ Time of calculatin = 13.713 [s]



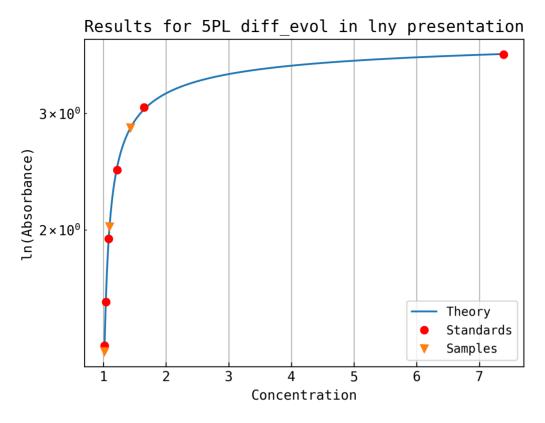
Plots

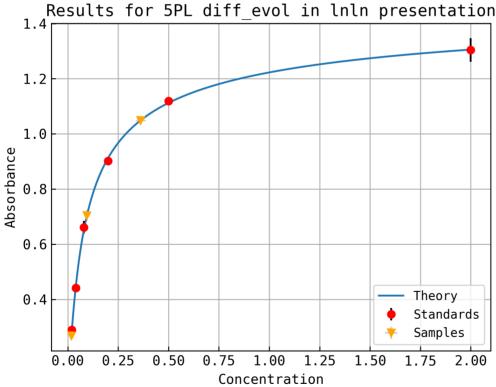




Ver: 05.02.2019
Page 5 of 6

Plots







Ver: 05.02.2019
Page 6 of 6

## **Calculation results**

<b>Good Samples</b>	Conc.	SD down Conc.	SD up Conc.	Absorbance	SD Abs.
sam1	1.018	0.00005	0.00005	1.30820	0.00045
sam2	1.100	0.00646	0.00600	2.02162	0.01966
sam3	1.435	0.02651	0.02408	2.85460	0.01450

# **BLQ** samples

	<b>Bad Sample</b>	Comment
1	sam1	blq_1_1
2	empty	blq_8_12
3	sam4	err1