

Table S1 Design matrix and responses for central composite design

Run	A	B	C	D	E	Response ^a
1	2	0	0	0	0	0.4287
2	1	1	-1	-1	1	0.2475
3	-1	-1	-1	-1	1	0.4323
4	1	1	-1	1	-1	0.3051
5	-1	1	1	1	-1	0.3018
6	0	0	0	0	2	0.3655
7	0	0	0	0	0	0.2719
8	0	0	0	0	0	0.3168
9	0	0	0	2	0	0.3150
10	-1	-1	-1	1	-1	0.3631
11	-1	1	-1	-1	-1	0.1664
12	1	1	1	1	1	0.3826
13	0	0	0	-2	0	0.2729
14	0	2	0	0	0	0.4648
15	0	0	-2	0	0	0.2729
16	0	0	2	0	0	0.3440
17	0	0	0	0	0	0.3023
18	0	0	0	0	0	0.3082
19	1	-1	1	1	-1	0.6121
20	1	1	1	-1	-1	0.2417
21	-1	1	-1	1	1	0.2916
22	0	-2	0	0	0	0.7206

23	-1	-1	1	-1	-1	0.4530
24	-2	0	0	0	0	0.1261
25	-1	1	1	-1	1	0.2527
26	-1	-1	1	1	1	0.4627
27	1	-1	-1	-1	-1	0.4889
28	1	-1	-1	1	1	0.5680
29	1	-1	1	-1	1	0.5151
30	0	0	0	0	-2	0.3018

^a Absorbance