

Table 1S The stability of the crude laccase from *Paraphoma* sp. GZS18 under different temperatures

Temperature (°C)	Remaining activity (%)
0	100
45	100±0.7
55	97.3± 3.7
65	89.7±4.6
70	86.1± 8.2
75	79.6± 6.4
80	58.5± 7.6
85	6.9± 0.2

Table 2S Factors and coded values of central composition design

Run	X1	X2	X3	Y
1	-1	-1	0	5707.05
2	-1	1	0	6743.81
3	1	-1	0	8865.27
4	1	1	0	10127.79
5	0	-1	-1	8972.20
6	0	-1	1	9253.34
7	0	1	-1	9910.47
8	0	1	1	8713.49
9	-1	0	-1	8297.82
10	1	0	-1	11869.80
11	-1	0	1	6598.82
12	1	0	1	10584.85
13	0	0	0	11968.11
14	0	0	0	11964.65
15	0	0	0	11975.01

*X1 = Methyl orange (μ M). Its values of different levels, Low (-1), Centre (0) and High (+1), chosen for Box–Behnken design were, separately, 25, 35 and 45.

*X2 = Addition time(h) of copper sulphate. Its values of different levels, Low (-1), Centre (0) and High (+1), chosen for Box–Behnken design were, separately, 8, 12 and 16.

*X3 = Addition time(h) of methyl orange. Its values of different levels, Low (-1), Centre (0) and High (+1), chosen for Box–Behnken design were, separately, 40, 60 and 80.