

Magnetic field (MF): an effective method to improve the activity of immobilized *Candida antarctica* lipase B (CALB)

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Supporting Information

Activity data of enzyme under different magnetic field intensity and time (**Table S1**).

FT-IR analysis results (**Fig. S1**).

Table S1. Effect of magnetization time and intensity^a

MF (T)	Time (h)				
	12	24	36	48	60
0	1058.9	845.2	500.1	492.3	484.0
0.075	1065.9	867.2	478.1	483.3	482.4
0.1	1077.8	869.6	659.4	663.7	692.1
0.125	1078.1	1046.3	904.5	928.5	935.9
0.15	1078.2	1031.4	1055.4	1076.3	1078.4
0.175	1088.2	1161.9	1182.9	1192	1184.8
0.2	1044.4	859.1	883.8	809.9	802.7
0.225	775.4	499.7	501.2	452.7	492.8
0.25	639.1	302.2	284.2	247.5	312.2

a. The data in the table are the catalytic activity of the sample(a.u.)

Fitting Results						
波峰序号	峰值类型	拟合数据波峰面积	FWHM	最大高度	波峰加权平均中心	拟合数据波峰面积百分比
1	Gaussian	6.16494	10.19288	0.57034	1612.198	7.63567
2	Gaussian	7.59198	9.66681	0.7378	1619.912	9.40315
3	Gaussian	10.49264	12.96154	0.7605	1625.698	12.9958
4	Gaussian	11.39535	12.38241	0.86455	1633.411	14.11386
5	Gaussian	8.63696	8.67847	0.93494	1643.054	10.69742
6	Gaussian	6.97149	5.75213	1.13858	1650.768	8.63463
7	Gaussian	7.14482	6.99927	0.95897	1658.481	8.84931
8	Gaussian	6.95549	8.20002	0.79686	1666.195	8.61482
9	Gaussian	5.06622	7.23402	0.65792	1673.909	6.27484
10	Gaussian	4.52805	5.19289	0.81916	1681.623	5.60827
11	Gaussian	2.99834	7.83168	0.35975	1689.337	3.71364
12	Gaussian	2.79242	10.73728	0.30496	1697.051	3.4586

Fitting Results						
波峰序号	峰值类型	拟合数据波峰面积	FWHM	最大高度	波峰加权平均中心	拟合数据波峰面积百分比
1	Gaussian	3.74465	7.43739	0.47354	1610.27	4.97077
2	Gaussian	6.21849	8.32656	0.7016	1617.984	8.25463
3	Gaussian	12.00959	13.75111	0.82046	1629.554	15.94194
4	Gaussian	11.52118	11.71242	0.9241	1639.197	15.29362
5	Gaussian	13.82487	15.23396	0.85254	1648.839	18.35162
6	Gaussian	10.80365	12.8257	0.79133	1658.481	14.34115
7	Gaussian	7.487	10.35526	0.67923	1666.195	9.9385
8	Gaussian	4.71064	8.50439	0.52036	1673.909	6.25306
9	Gaussian	3.20777	5.95742	0.50584	1681.623	4.2581
10	Gaussian	1.80544	7.5014	0.22614	1689.337	2.39661

Fitting Results						
波峰序号	峰值类型	拟合数据波峰面积	FWHM	最大高度	波峰加权平均中心	拟合数据波峰面积百分比
1	Gaussian	2.37583	10.65375	0.21061	1612.198	6.34831
2	Gaussian	3.55181	12.22736	0.27292	1619.912	9.49059
3	Gaussian	10.63534	36.92413	0.28631	1625.698	28.41806
4	Gaussian	4.0757	11.35183	0.33729	1633.411	10.89044
5	Gaussian	3.7506	9.42992	0.37365	1643.054	10.02176
6	Gaussian	2.72268	6.11433	0.41833	1650.768	7.27511
7	Gaussian	2.77172	6.92926	0.37578	1658.481	7.40615
8	Gaussian	2.64122	7.78399	0.31877	1668.124	7.05746
9	Gaussian	1.73314	6.40152	0.25434	1673.909	4.63102
10	Gaussian	1.71207	4.84766	0.33178	1681.623	4.57471
11	Gaussian	1.45446	9.10272	0.15031	1689.337	3.88638

Fitting Results						
波峰序号	峰值类型	拟合数据波峰面积	FWHM	最大高度	波峰加权平均中心	拟合数据波峰面积百分比
1	Gaussian	0.71921	4.65661	0.1451	1610.27	4.50376
2	Gaussian	1.10757	4.68994	0.22186	1617.984	6.93568
3	Gaussian	1.78534	6.70062	0.25031	1629.554	11.17995
4	Gaussian	2.03429	6.18769	0.30885	1639.197	12.73889
5	Gaussian	1.7408	6.09658	0.26824	1648.839	10.90103
6	Gaussian	1.7974	6.16428	0.27392	1656.553	11.25544
7	Gaussian	1.94121	9.02874	0.20198	1664.267	12.15598
8	Gaussian	2.02172	12.42274	0.15289	1671.981	12.66016
9	Gaussian	1.61822	10.50402	0.14473	1677.766	10.13339
10	Gaussian	1.20339	10.75925	0.10524	1687.408	7.53572

Fig. S1 Fitting result of FT-IR (a) 0 T, (b) 0.125 T, (c) 0.15 T, (d) 0.175 T