CTAB-PEG DNA EXTRACTION FROM FUNGI WITH HIGH CONTENTS OF POLYSACCHARIDES, X. Huang, N. Duan, H. Xu, T. Xie, Y.-R. Xue, C.-H. Liu, **Molecular Biology.**

Supplementary Table

Appendix.1 The Data of Eleven Different Methods

Extration Method	Sample	OD260/OD280	OD260/OD230	DNA concentration(ng/μl)	Yield(μg/g)	Dry weight of the mycelium(g)
CTAB-PEG method	1	1.83	2.01	199.47	40.71	0.098
	2	1.84	2.1	198.6	38.19	0.104
	3	1.82	2.31	189.57	35.11	0.108
	4	1.91	2.25	168.26	29.78	0.113
	5	1.85	2.39	176.38	32.66	0.108
	6	1.87	2.36	192.24	36.97	0.104
4%CTAB method	1	1.87	2.11	82.5	13.75	0.12
	2	1.74	2.09	114.73	21.85	0.105
	3	1.89	1.96	96.29	18.17	0.106
	4	1.88	2.03	94.11	16.37	0.115
	5	1.72	2.14	84.13	15.58	0.108
	6	1.77	2.18	95.19	18.31	0.104
2%CTAB method	1	1.76	1.92	35.91	6.97	0.103
	2	1.81	1.78	40.36	7.54	0.107
	3	1.75	1.74	49.54	8.93	0.111

	4	1.77	1.81	35.18	6.51	0.108
	5	1.87	1.73	48.5	9.24	0.105
	6	1.83	1.7	53.23	10.04	0.106
High-salt CTAB Method	1	1.82	1.76	83.3	15.01	0.111
	2	1.84	1.77	79.34	13.45	0.118
	3	1.75	1.82	89.57	15.58	0.115
	4	1.78	1.78	78.14	12.92	0.121
	5	1.73	1.84	86.5	16.02	0.108
	6	1.77	1.75	86.78	16.22	0.107
Commerical Kit Method	1	1.82	2.08	89.19	22.02	0.081
	2	1.81	2.16	77.63	18.48	0.084
	3	1.86	2.25	87.12	18.34	0.095
	4	1.88	2	79.84	17.55	0.091
	5	1.85	1.98	90.12	18.21	0.099
	6	1.8	2.05	78.05	13.69	0.114
Sodium Laurate Method	1	1.82	1.87	45.23	8.45	0.107
	2	1.7	1.85	57.18	10.79	0.106
	3	1.75	1.76	46.49	8.86	0.105
	4	1.79	1.72	45.08	8.43	0.107
	5	1.82	1.81	56.13	10.11	0.111
	6	1.73	1.85	38.19	6.70	0.114
Urea Method	1	1.77	1.35	28.19	5.81	0.097
	2	1.65	1.48	24.56	5.17	0.095
	3	1.72	1.33	34.18	6.70	0.102

	4	1.79	1.41	19.27	3.82	0.101
	5	1.68	1.47	25.94	5.19	0.1
	6	1.78	1.49	31.47	6.17	0.102
Benzyl Chloride Method	1	1.79	1.87	28.13	5.99	0.094
	2	1.68	1.73	19.81	4.13	0.096
	3	1.82	1.79	27.34	5.76	0.095
	4	1.84	1.81	27.52	5.62	0.098
	5	1.76	1.95	34.01	6.18	0.11
	6	1.72	1.94	27.36	5.53	0.099
Glass Bead Method	1	1.82	1.56	35.23	6.52	0.108
	2	1.81	1.59	44.48	8.72	0.102
	3	1.79	1.57	37.79	8.04	0.094
	4	1.84	1.61	46.31	8.82	0.105
	5	1.82	1.55	38.12	7.47	0.102
	6	1.88	1.64	39.1	7.11	0.11
Snailase Method	1	1.57	1.45	32.24	5.92	0.109
	2	1.54	1.5	25.18	4.89	0.103
	3	1.49	1.64	29.05	5.87	0.099
	4	1.57	1.58	31.44	5.61	0.112
	5	1.68	1.69	35.27	6.30	0.112
	6	1.51	1.52	28.04	5.24	0.107
Proteinase K Method	1	1.42	1.58	23.13	4.63	0.1
	2	1.6	1.47	18.92	3.71	0.102
	3	1.77	1.42	27.38	5.02	0.109
	4	1.68	1.45	21.19	4.00	0.106

	5	1.68	1.51	26.54	4.78	0.111
	6	1.61	1.49	19.03	3.88	0.098

Table. 2. The Comparation of Eleven Different DNA Extraction Methods

Procotols of DNA extraction	Time consume of digestion (h)	Time consume of purification (h)	Time consume of precipitation (h)	Time consume of other operations (h)	Total time consume of practical operaction (h)	Total time consume of practical operaction	Reference
CTAB-PEG method	1.0-2.0	1.5-2.0	0.5-1.0	2.0	5.0-7.0	***	
4%CTAB method	1.0-2.0	2.0-2.5	5.0-6.0	1.0-2.0	9.0-12.5	****	11
2%CTAB	1.0-2.0	1.5-2.0	1.5-2.0	1.5-2.0	5.5-8.0	***	10
High-salt CTAB Method	0.5-1.0	1.0-1.5	0.5	1.0-1.5	3.0-4.5	**	12
Commerical Kit Method	1.0	0.3-0.5	0.2-0.3	0.5-1.0	2.0-2.8	*	13
Sodium Laurate Method	0.5-1.0	1.0-1.5	1.0	1.0-1.5	3.5-5.0	**	16
Urea Method	1.5-2.0	0.5-1.0	0.5-1.0	0.5-1.0	3.0-5.0	**	14
Benzyl Chloride Method	1.0	1.5	0.3-0.5	0.5-1.0	3.3-4.0	**	5

Glass Bead Method	1.5-2.0	1.5-2.0	0.5-1.0	1.5-2.0	5.0-7.0	***	17
Snailase Method	3.0-4.0	2.5-4.0	1.5-2.0	1.0-2.0	8.0-12.0	****	6
Proteinase K Method	6.0	0.5-1.0	0.5-1.0	1.0-1.5	8.0-9.5	***	15

Note: the more numbers of asterisk, the deeper levels.if total time consuming of practical operation is more than 3 hours, there will be two asterisks, if total time consuming of practical operation is more than 5 hours,there will be three asterisks, if total time consuming of practical operation is more than 8 hours,there will be four asterisks.