

Supporting Information

Simultaneous Determination of Naphthalimide-Labelled Monosaccharides within *P. cyrtonema* Hua. Polysaccharides Utilizing HPLC-UV technique

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Box–Behnken experimental

Table S1 Levels and code of derivatization variables used in Box–Behnken design.

Variable	Coded Levels		
	-1	0	1
Temperature (A, °C)	70	80	90
Time (B, min)	2	4	6
Kinds of acid (C)	-1 (HCl)	0 (AcOH)	1 (HCOOH)
Molar ratio (D)	-1 (2: 1)	0 (1: 1)	1 (1: 2)

Table S2 Box–Behnken experimental design and the results for yield of derivatization of ANA- monosaccharide

Run	A	B	C	D	Yield (%)
1	70	4	0	0	27
2	90	6	0	0	21
3	70	4	0	0	51
4	90	4	0	0	42
5	80	4	-1	-1	34
6	80	4	1	-1	56
7	80	2	-1	1	29
8	80	4	1	1	18
9	70	6	0	-1	41
10	90	4	0	-1	51
11	70	4	0	1	22
12	90	4	0	1	27
13	80	2	-1	0	33
14	80	2	-1	0	50
15	80	6	1	0	17
16	80	4	1	0	30
17	70	6	-1	0	47
18	90	4	-1	0	36
19	70	2	1	0	29
20	90	4	1	0	24
21	80	6	0	-1	36
22	80	4	0	-1	62
23	80	4	0	1	17
24	80	2	0	1	33
25	80	2	0	0	75
26	80	4	0	0	72
27	80	4	0	0	73
28	80	4	0	0	70
29	80	6	0	0	71

References

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