SUPPLEMENTARY MATERIAL

A new 6,9'-cyclolignan from *Syringa pinnatifolia*

Qinghu Wang, Jintao Bao¹, Surina Han, Wuliji Ao*

College of Traditional Mongolian Medicine, Inner Mongolia University for Nationalities, Tongliao 028000, Inner Mongolia, China

A new lignan, 4,4'-dihydroxy-3,3'-dimethoxy-6,9'-cycloligna-7,8'-dien-9'-al, was isolated from the stem of *Syringa pinnatifolia* Hems1. var. *alashanensis* MA. et S. Q. ZHOU (*S. pinnatifolia*). This is the first report on the structure elucidation of a new compounds based on spectroscopic methods including UV, IR, ESI-MS, 1D NMR and 2D NMR techniques.

Keywords: *Syringa pinnatifolia*;

4,4'-dihydroxy-3,3'-dimethoxy-6,9'-cycloligna-7,8'-dien-9'-al; NMR; HR-ESI-MS

Figure S5. HSQC spectrum of compound **1**

Figure S6. DEPT spectrum of compound **1**

Table S1 ¹H (500 MHz) and ¹³C-NMR (125MHz) data of compound **1** in CDCl₃

Position	δ_{H} (ppm) <i>J</i> (Hz)	δ_{C} (ppm)	HMBC (H→C)
1	—	126.9	—
2	7.23 s	106.8	C-4, C-6, C-7
3	—	147.8	—
4	—	148.8	—
5	7.22 s	109.2	C-1, C-3, C-9'
6	—	132.9	—
7	8.20 s	134.5	C-2, C-6, C-9, C-8'
8	—	130.7	—
9	10.2 s	192.6	C-7, C-8, C-8'
1'	—	132.7	—
2'	6.75 d (1.5)	111.6	C-4', C-6', C-7'
3'	—	146.5	
4'	—	143.9	
5'	6.84 d (8.0)	114.3	C-1', C-3'
6'	6.66 dd (8.0, 1.5)	121.6	C-2', C-4', C-7'
7'	4.46 s	38.2	C-8, C-8', C-9', C-1', C-2', C-6'
8'	—	136.9	
9'	7.44 s	128.4	
OCH ₃	4.05 s	56.1	C-3
	3.82 s	55.9	C-3'