

# Antihypertensive Activity of the Alkaloid Aspidocarpine in Normotensive Wistar Rats

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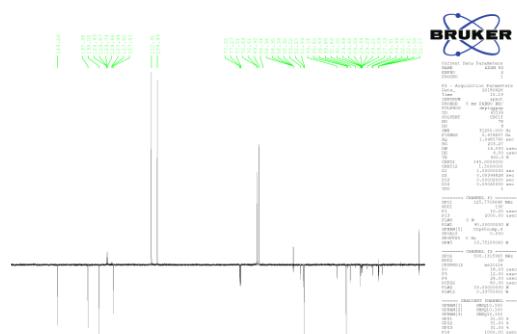
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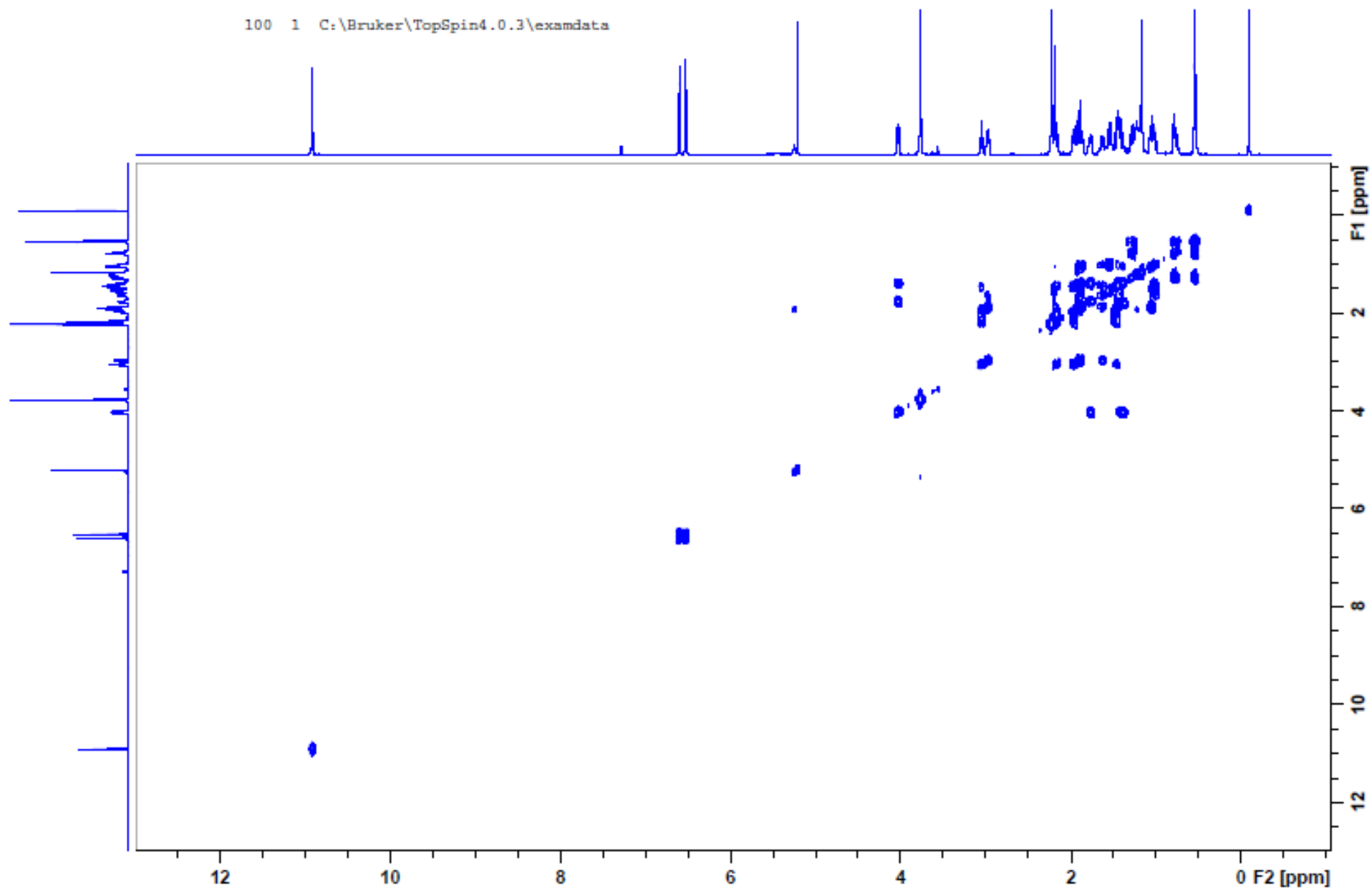
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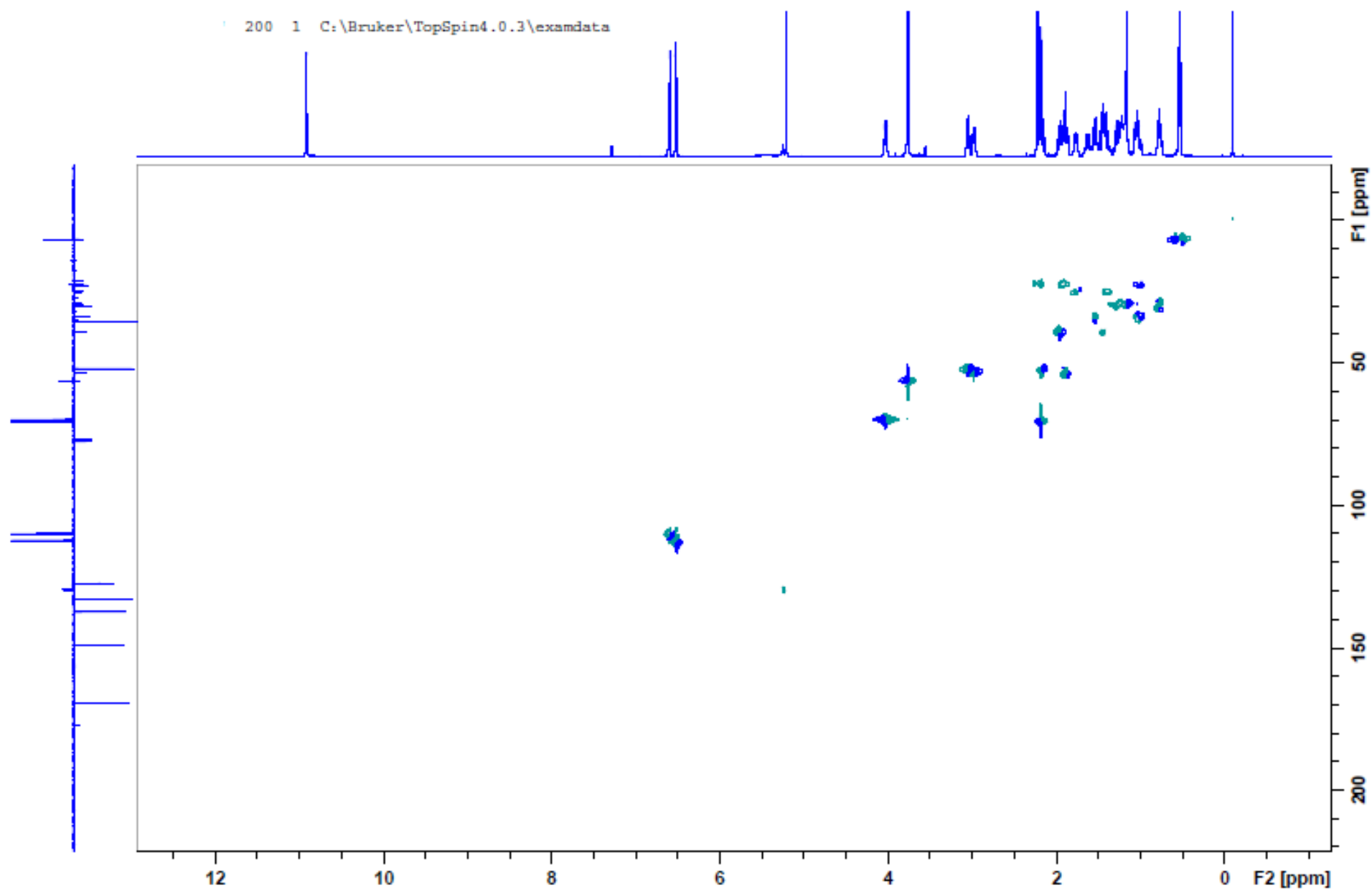
**Figure S1:**  $^1\text{H}$  NMR spectrum of Aspidocarpine ( $\text{CDCl}_3$ , 500 MHz).



**Figure S2:**  $^{13}\text{C}$  DEPTQ NMR spectrum of Aspidocarpine ( $\text{CDCl}_3$ , 125 MHz).



**Figure S3:**  $^1\text{H}$ - $^1\text{H}$ -COSY spectrum of Aspidocarpine ( $\text{CDCl}_3$ , 500 MHz).



**Figure S.4:** HSQC spectrum of Aspidocarpine (CDCl<sub>3</sub>, 500 MHz).

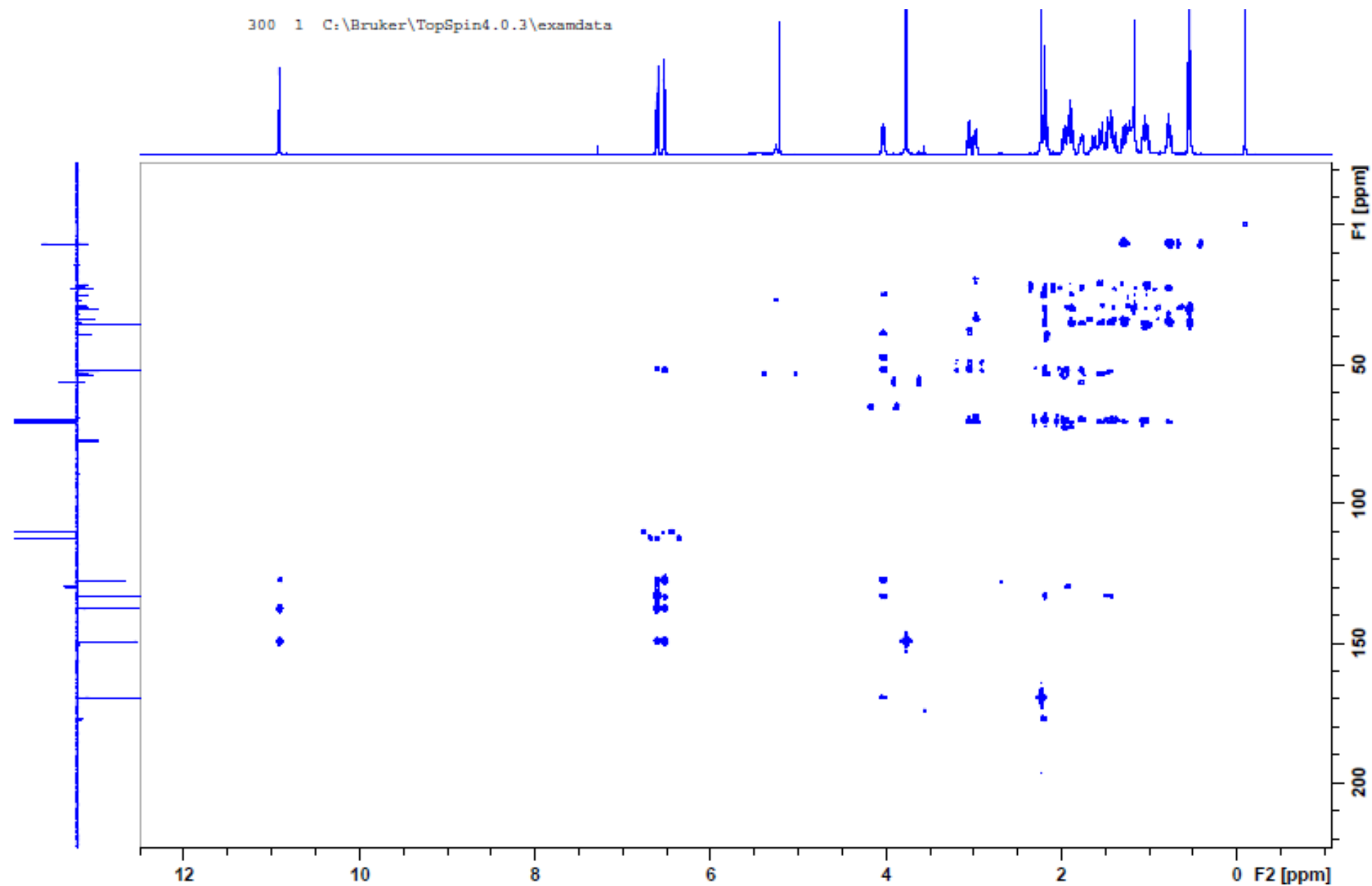
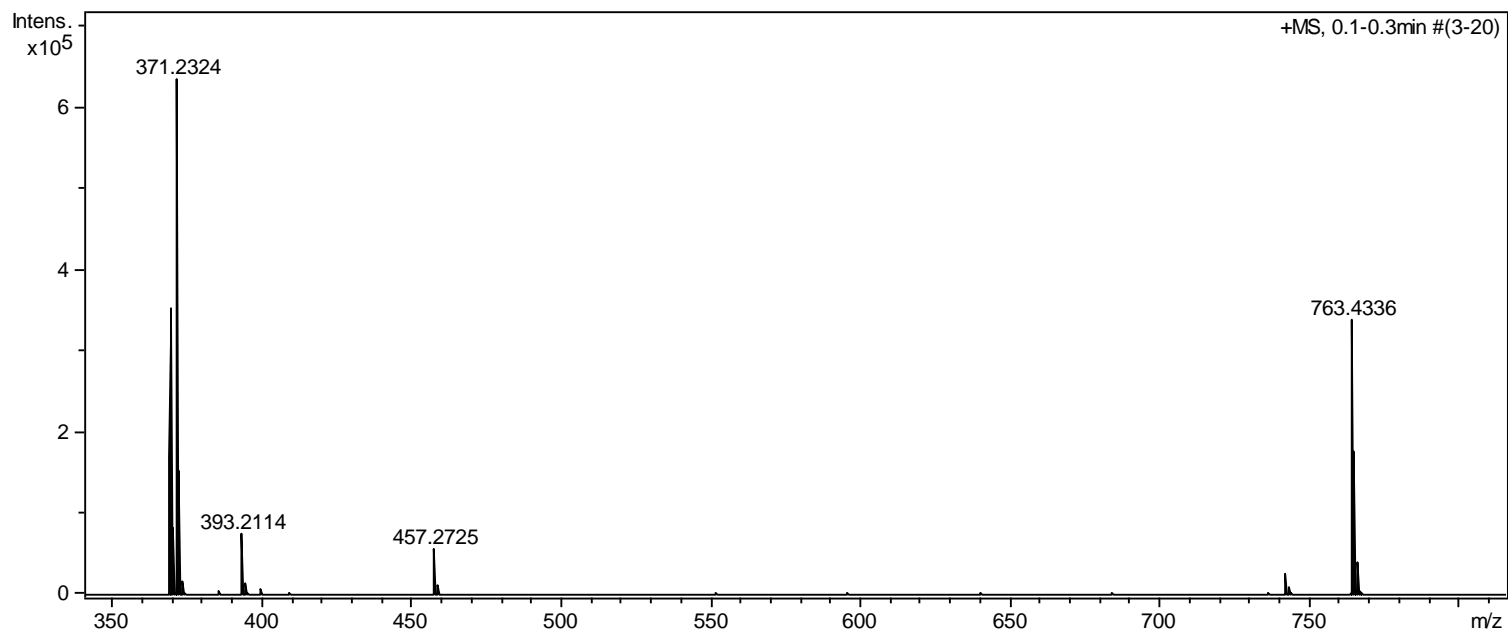
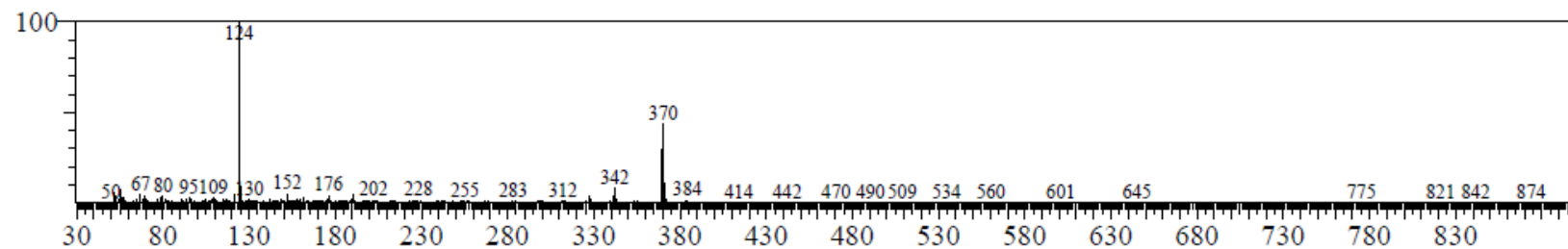


Figure S.5: HMBC spectrum of Aspidocarpine (CDCl<sub>3</sub>, 500 MHz).

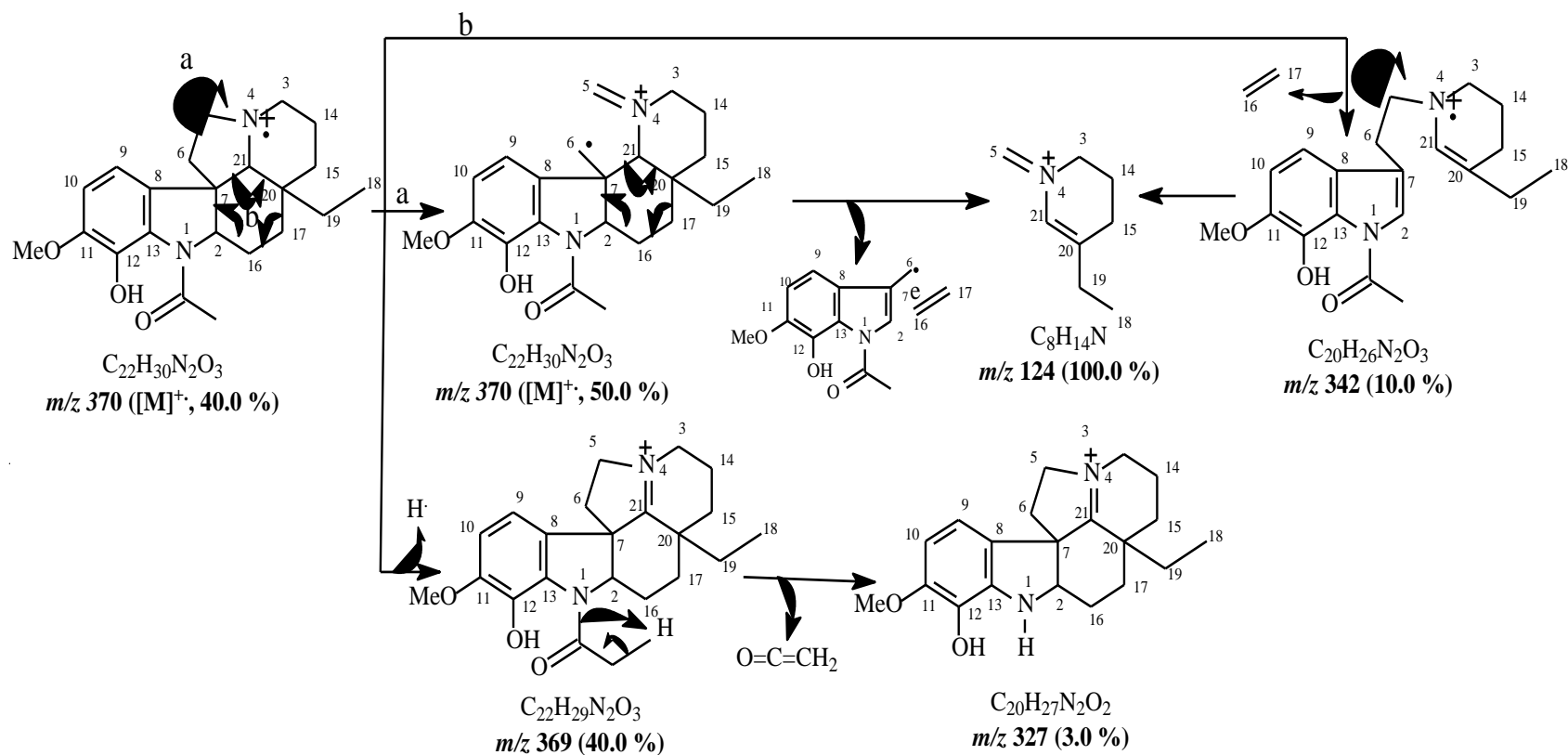


**Figure S6:** High-resolution mass spectrum (HRESIMS/positive mode) of Aspidocarpine.

Line#:1 R.Time:15.042(Scan#:1566) MassPeaks:407  
 RawMode:Single 15.042(1566) BasePeak:124.10(6457659)  
 BG Mode:None



**Figure S7:** Low-resolution mass spectrum of Aspidocarpine.



**Figure S8:** Proposal of mass spectra fragmentation of Aspidocarpine.



**Table S1:**  $^1\text{H}$  (500 MHz) and  $^{13}\text{C}$  (125 MHz) NMR spectral data for Aspidocarpine, including results obtained by heteronuclear 2D shift-correlated HSQC ( $^1J_{\text{CH}}$ ) and HMBC ( $^nJ_{\text{CH}}$ ,  $n=2$  and 3) and comparison with values described in the literature [16, 17]), in  $\text{CDCl}_3$  as solvent. Chemical shifts ( $\delta$ , ppm) and coupling constants ( $J$ , Hz, in parenthesis).

	HMQC		HMBC		[17]		[16]	
	$\delta_{\text{C}}$	$\delta_{\text{H}}$	$^2J_{\text{CH}}$	$^3J_{\text{CH}}$	$\delta_{\text{C}}$	$\delta_{\text{H}}$	$\delta_{\text{C}}$	$\delta_{\text{H}}$
<b>C</b>								
7	51.99	-	H-2	2H-5; H-9	52.2	-	52.20	-
8	132.99	-	H-9	H-2; H-10; H-21	133.1	-	133.13	-
11	149.26	-	H-10	H-9; MeO-11; HO-12	149.4		149.35	-
12	137.36	-	HO-12	H-10	137.5		137.47	-
13	127.40	-		H-2; H-9; HO-12	127.5	-	127.51	-
20	35.42	-	2H-19	H-16a; 3H-18	35.5	-	35.46	-
1'	169.28	-	3H-2'	H-2	169.3	-	169.31	-
<b>CH</b>								
2	69.31	4.03 (dd, 11.3, 6.2)			70.3		70.25	4.07 (dd, 11.0, 6.0))
9	112.31	6.52 (d, 8.1)	H-10		112.4	6.61 (d, 8.0)	112.36	6.61 (d, 8.0)
10	109.99	6.60 (d, 8.1)	H-9		110.0	6.69 (d, 8.0)	110.04	6.69 (d, 8.0)
21	70.63	2.20 (s)		H-3a; H-5a; 2H-19	70.6	2.25 (s)	70.62	2.25 (s)
<b>CH<sub>2</sub></b>								
3	53.52	2.97 (dl, 10.9(1.90			53.7	3.04 (dm, 12 1.98 (td, 12.0, 4.0)	53.67	3.04 (dm, 12.0) 1.98 (td, 12.0, 4.0)
5	52.27	3.06 (td, 9.0, 2.1) 2.15			52.4	3.12 (m), 2.27 (m)	52.43	3.12 (m), 2.27 (m)
6	39.16	1.98, 1.45	H-5b	H-2	39.4	2.04 (m), 1.57(m)	39.37	2.04 (m), 1.57 (m)
14	21.27	2.20, 1.92	H-15b		21.5	1.72(tm, 12.0) 1.53 (dm, 12.0, 4.0)	21.50	1.72 (tm, 12.0), 1.53 (dm, 12.0)
15	33.88	1.60, 1.02		H-3a	34.0	1.65 (dt, 12.0, 4.0) 1.11 (td, 12.0, 4.0)	34.02	1.65 (dt, 12.0, 4.0), 1.11 (dt, 12.0, 4.0)
16	24.99	1.88, 1.52			25.1	1.86 (m), 1.52 (m)	25.10	1.86 (m), 1.52 (m)
17	22.75	1.98, 1.20		H-19b	22.9	2.00 (td, 14.0, 12.0) 1.15 (dm, 12.0)	22.92	2.00 (td, 12.0, 14.0), 1.15 (dm, 12.0)
19	30.00	1.25, 0.80	3H-18		30.0	1.44 (m), 0.93 (m)	30.03	1.44 (m), 0.93 (m)
<b>CH<sub>3</sub></b>								
18	6.71	0.64 (t, 7.4)	2H-19		6.8	0.63 (t, 7.5)	6.76	0.63 (d, 7.5)
MeO	56.36	3.77 (s)			56.4	3.88 (s)	56.43	3.88 (s)
2'	22.60'	2.23 (s)			22.7	2.33 (s)	22,68	2.33 (s)
HO	-	10.91 (s)			-	10.98 (s)	-	10.98 (s)