

Supporting Information to

Screening of Panamanian Plants for Cosmetic Properties, and HPLC-Based Identification of Constituents with Antioxidant and UV-B Protecting Activities

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Published in Sci Pharm. 2015; 83: 177–190

doi:10.3797/scipharm.1409-12

Available from: <http://dx.doi.org/10.3797/scipharm.1409-12>

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Fig. 1S. HPLC-DAD chromatograms of the crude extract and its polyamide fractions (PA1-PA5) of *Mosquitoxylum jamaicense*. SunFire C18 column (150 x 3 mm i.d., 3.5 μ m); 5–100% MeCN/0.1% aqueous formic acid in 30min, 0.4 mL/min; detection: 210–700nm, maxplot.

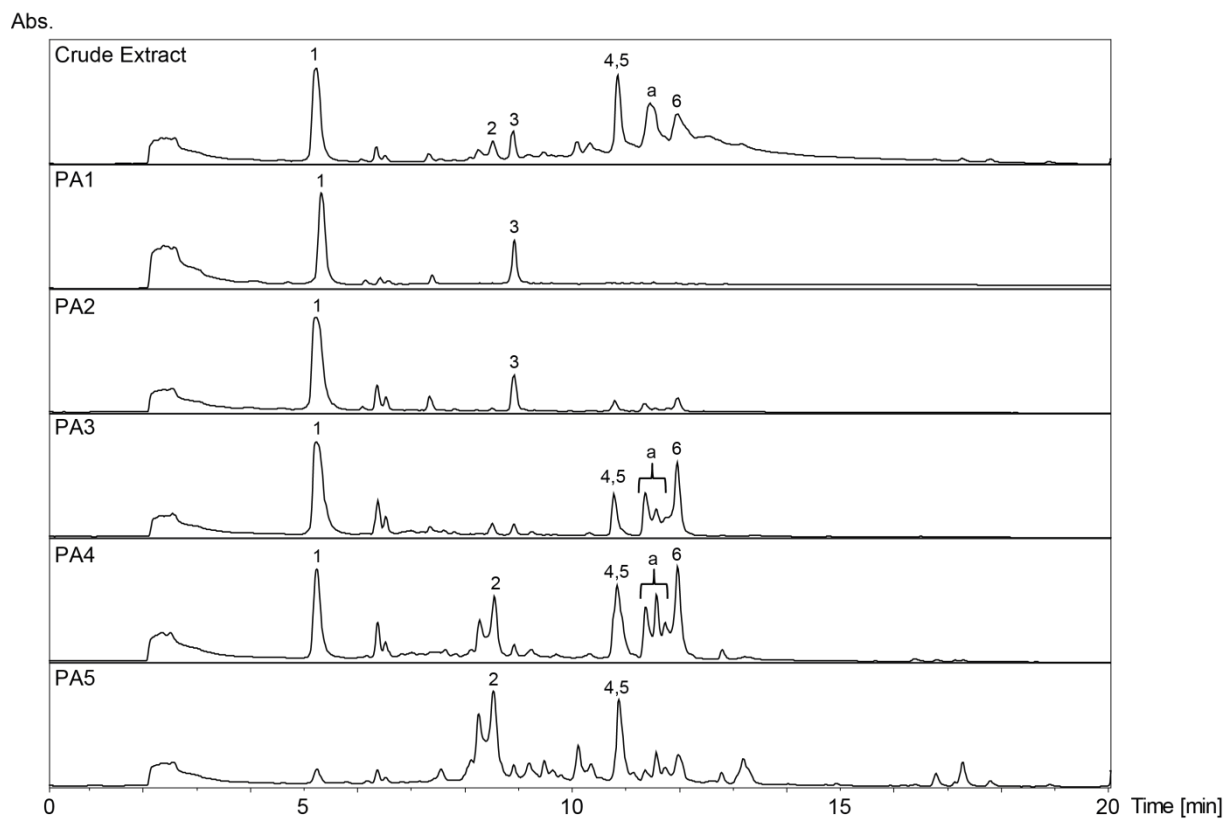
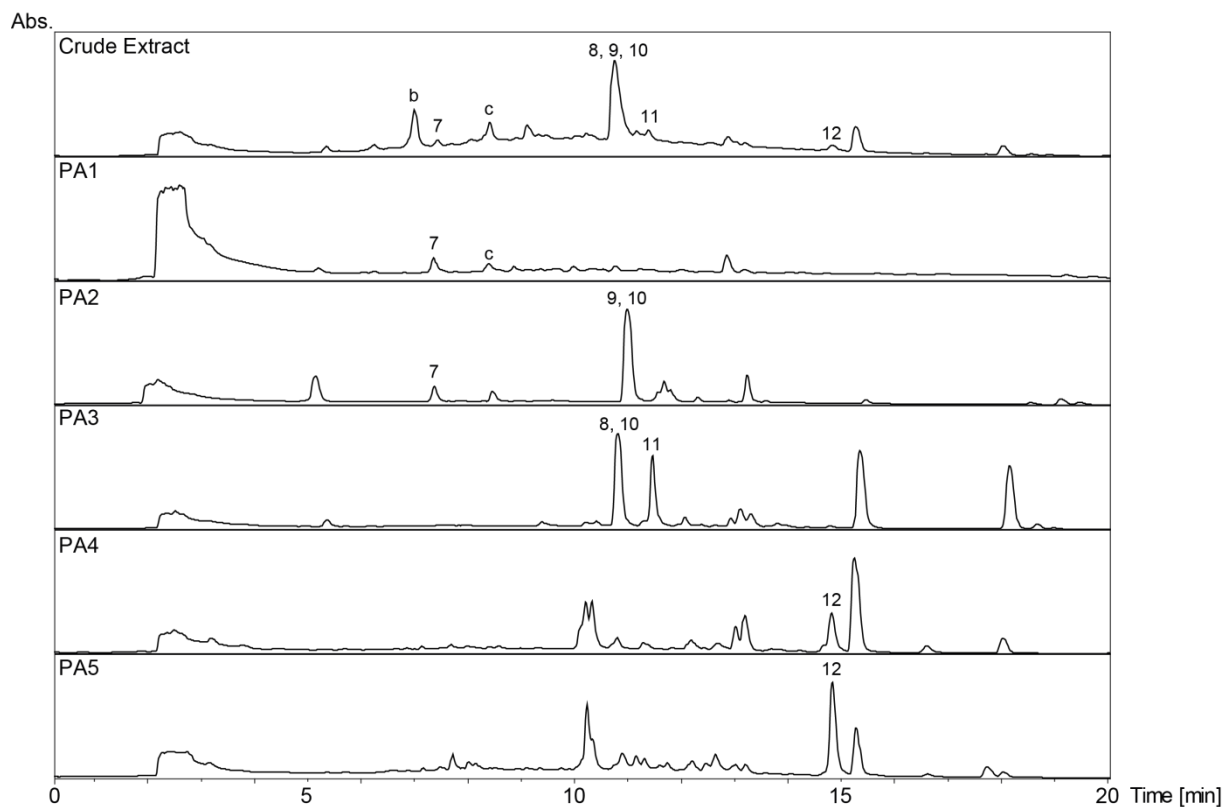


Fig. 2S. HPLC-DAD chromatograms of the crude extract and its polyamide fractions (PA1-PA5) of *Combretum cacoucia*. SunFire C₁₈ column (150 x 3 mm i.d., 3.5 µm); 5–100% MeCN/0.1% aqueous formic acid in 30min, 0.4 mL/min; detection: 210–700nm, maxplot.



Tab.1S. ^1H and ^{13}C NMR^a data (500 MHz) of compounds **3** and **7**

Position	3 ^b		7 ^c	
	δ_{H}	δ_{C}	δ_{H}	δ_{C}
1	—	121.0	—	n.d.
2	7.06 (s)	109.9	7.34 (d, 1.8)	116.5
3	—	146.0	—	144.6
4	—	139.4	—	149.7
5	—	146.0	6.79 (d, 8.2)	114.9
6	7.06 (s)	109.9	7.28 (dd, 8.2, 1.8)	121.6
7	—	168.6	—	167.1
7-OMe	3.80 (s)	52.0	—	—

^a ^{13}C NMR data derived from HSQC and HMBC experiments;
^b recorded in CD_3OD ; ^c recorded in DMSO-d_6 ; n.d.: not detected

Tab. 2S. ^1H and ^{13}C NMR^a data (500 MHz) of compounds **4** and **5** in CD_3OD

Position	4		5	
	δ_{H}	δ_{C}	δ_{H}	δ_{C}
2	—	158.1	-	n.d.
3	—	135.5	-	n.d.
4	—	n.d.	-	n.d.
5	—	163.8	-	163.5
6	6.16 (br s)	99.5	6.16 (s)	99.3
7	—	165.5	-	164.9
8	6.31 (br s)	94.4	6.32 (s)	94.1
9	—	158.0	-	157.7
10	—	105.7	-	105.5
1'	—	n.d.	-	n.d.
2'	7.62 (d, 1.9)	117.0	7.56 (d, 1.4)	116.7
3'	—	145.8	-	145.5
4'	—	149.5	-	149.1
5'	6.78 (d, 8.5)	116.0	6.82 (d, 8.4)	115.7
6'	7.47 (dd, 8.5, 1.9)	122.9	7.50 (d, 8.4, 1.4)	122.7
1''	5.65 (d, 7.9)	101.0	5.70 (d, 8.0)	100.3
2''	5.43 (dd, 9.8, 7.9)	74.5	5.13 (t, 8.7)	75.6
3''	3.83 (dd, 9.8, 2.9)	73.3	3.68 (m)	76.0
4''	3.95 (br s)	70.4	3.49 (t, 9.3)	71.2
5''	3.62 (t, 5.6)	77.1	3.36 (m)	78.1
6''a	3.72 (d, 5.6)	62.0	3.65 (m)	62.1
6''b			3.81 (m)	
1'''	—	121.5	-	121.1
2'''	7.13 (s)	110.6	7.13 (s)	110.3
3'''	—	146.3	-	145.8
4'''	—	139.9	-	139.3
5'''	—	146.3	-	145.8
6'''	7.13 (s)	110.6	7.13 (s)	110.3
7'''	—	168.0	-	167.3

^a ^{13}C NMR data derived from HSQC and HMBC experiments;

n.d.: not detected

Tab. 3S. ^1H and ^{13}C NMR^a data (500 MHz) of compounds **2** and **6** in CD_3OD

Position	2 (meta)		2 (para)		6 (meta)		6 (para)	
	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}
1	—	122.2	—	129.4	—	121.2	—	128.7
2	7.29 (d, 1.5)	117.3	7.14 (s)	110.0	7.28 (d, 1.9)	117.0	7.12 (s)	109.5
3	—	143.5	—	151.5	—	140.0	—	151.2
4	—	143.9	—	132.6	—	143.8	—	132.5
5	—	147.1	—	151.5	—	147.0	—	151.2
6	7.42 (d, 1.5)	115.0	7.14 (s)	110.0	7.40 (d, 1.9)	114.4	7.12 (s)	109.5
7	—	169.7	—	169.7	—	167.9	—	167.9
1'	—	120.6	—	120.6	—	120.2	—	120.2
2'	7.25 (s)	110.8	7.26 (s)	110.8	7.25 (s)	110.5	7.26 (s)	110.5
3'	—	146.4	—	146.4	—	146.1	—	146.1
4'	—	140.3	—	140.3	—	140.0	—	140.0
5'	—	146.4	—	146.4	—	146.1	—	146.1
6'	7.25 (s)	110.8	7.26 (s)	110.8	7.25 (s)	110.5	7.26 (s)	110.5
7'	—	166.5	—	166.1	—	166.3	—	165.8
7-OMe	—	—	—	—	3.83 (s)	52.0	3.85 (s)	52.3

^a ^{13}C NMR data derived from HSQC and HMBC experiments

Tab. 4S. ^1H and ^{13}C NMR^a data (500 MHz) of compounds **8**, **10**, **11**, and **12** in DMSO- d_6

	8		10		11		12	
Pos.	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{C}
2	—	156.0	—	n.d.	—	155.0	—	n.d.
3	—	133.4	—	n.d.	—	133.4	—	n.d.
4	—	177.1	—	n.d.	—	n.d.	—	n.d.
5	—	161.1	—	161.2	—	161.0	—	160.6
6	6.21 (d, 2.0)	98.5	6.19 (d, 1.5)	98.5	6.20 (s)	98.6	6.19 (s)	98.1
7	—	163.8	—	163.9	—	164.3	—	163.2
8	6.41 (d, 2.0)	93.3	6.39 (d, 1.5)	93.4	6.40 (s)	93.4	6.41 (s)	93.2
9	—	155.9	—	156.3	—	156.1	—	155.7
10	—	103.6	—	103.8	—	103.7	—	102.8
1'	—	120.9	—	121.0	—	120.8	—	121.6
2'	7.56 (d, 2.2)	115.9	7.58 (d, 2.0)	116.0	7.54 (d, 1.7)	115.6	7.68 (s)	114.8
3'	—	144.6	—	144.7	—	144.8	—	144.7
4'	—	147.9	—	148.0	—	148.1	—	146.9
5'	6.83 (d, 8.5)	115.0	6.85 (d, 8.3)	115.1	6.86 (d, 8.5)	115.1	6.89 (d, 8.4)	115.3
	7.66		7.57		7.63		7.55	
6'	(dd, 8.5, 2.2)	121.7	(dd, 8.3, 2.0)	121.2	(dd, 8.5, 1.7)	121.6	(d, 8.4)	119.7
1''	5.36 (7.7)	101.8	5.43 (d, 7.1)	100.9	5.27 (d, 5.2)	101.3	—	—
2''	3.59 (t, 8.3)	71.1	3.26 (m)	73.9	3.78 (dd, 6.6, 5.2)	70.5	—	—
3''	3.40 (m)	73.1	3.25 (m)	76.4	3.54 (dd, 6.6, 3.0)	71.5	—	—
4''	3.68 (d, 2.7)	67.8	3.12 (m)	69.8	3.68 (m)	65.8	—	—
5''a	3.36 (m)	75.6	3.11 (m)	77.2	3.24 (dd, 11.5, 1.7)	64.0	—	—
5''b	—	—	—	—	3.63 (dd, 11.5, 5.1)	—	—	—
6''a	3.33 (m)		3.35 (m)		—		—	
	3.49	59.9		60.8		—		—
6''b	(dd, 9.7, 5.3)		3.58 (d, 11.5)		—		—	

^a ^{13}C NMR data derived from HSQC and HMBC experiments; n.d.: not detected

Tab. 5S. ^1H and ^{13}C NMR data (500 MHz) of compound **9** in DMSO-d_6

Position	δ_{H}	δ_{C}
1	—	114.2
2	—	141.0
3	—	141.8
4	—	151.6
5	7.81 (s)	111.9
6	—	112.0
7	—	158.5
1'	—	111.2
2'	—	141.7
3'	—	140.2
4'	—	153.0
5'	7.61 (s)	111.7
6'	—	112.8
7'	—	158.5
1''	5.14 (d, 7.2)	101.4
2''	3.36 (m)	73.4
3''	3.36 (m)	76.5
4''	3.23 (m)	69.5
5''	3.42 (m)	77.3
6''a	3.52 (dd, 11.9, 5.3)	60.6
6''b	3.69 (dd, 11.9, 1.8)	
3-OMe	4.10 (s)	61.8
3'-OMe	4.05 (s)	61.1