

Table S1. GC-MS based analysis of chemical composition of various plant parts of *Avicennia marina* plant by the various solvents

Sample	Molecule name	Retention time	formula
<b>Leaves</b> <b>(Ethyl acetate)</b>	1-TETRADECENE	13	C14H28
	2,4-BIS(1-METHYL-1-PHENYLETHYL)PHENOL OR 2,4-BIS(ALPHA,ALPHA-DIMETHYLBENZYL)PHENOL	32.5	[C6H5C(CH3)2]2C6H3OH
	DODECANE, 1,1'-OXYBIS- OR 1-DODECOXYDODECANE	35	C24H50O
	2,,6,10,14,18,22-TETRACOSAHEXAE	37.3	C30H50
	NORUNS-12-ENE	44.5	C29H48
<b>Fruits</b> <b>(Ethyl acetate)</b>	CYCLOHEXANONE	4.42	(CH2)5CO
	1-HEPTADECANOL	22.2	CH3(CH2)16OH
	3-EICOSENE, (E)- OR (E)-3-ICOSENE	26.5	C20H40
	TETRACOSANE	40.93	H(CH2)24H
	TETRATETRACONTANE	43.94	CH3(CH2)42CH3
	2,,6,10,14,18,22-TETRACOSAHEXAE	45.47	C30H50
	NONACOSANE	46.69	C29H60

		TETRACONTANE	49.26	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>38</sub> CH <sub>3</sub>
<b>Roots (Ethanol)</b>	GLYCERIN	7.78	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	
	CIS-CINNAMIC ACID	18.35	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>	
	HEXADECANOIC ACID OR PALMITIC ACID	30.79	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	
	2,,6,10,14,18,22-TETRACOSAHEXAE	45.47	C <sub>30</sub> H <sub>50</sub>	
	25-ETHYL-27-NORCHOLESTA-5,24(Z)	51.76		
	2-FURANCARBOXALDEHYDE, 5- (HYDRXYMETHYL)- OR HYDROXYMETHYLFURFURAL (HMF)	12.97		
	1-DEOXY-D-ALTRITOL OR FUCITOL	23.19		
	1,2-BENZENEDICARBOXYLIC ACID OR PHTHALIC ACID	18.58	C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	
	HEXADECANOIC ACID OR PALMITIC ACID	30.79		
	3,4,7,11,15-PENTAMETHYL	45.47		
	STIGMAST-5-EN-3-OL, (3.BETA.,24S)- OR BETA-SITOSTEROL	51.76		
	TARAXASTEROL	52.81		
<b>Leaves (Ethanol)</b>	1,2-BENZENEDICARBOXYLIC ACID OR PHTHALIC ACID	18.58	C <sub>8</sub> H <sub>6</sub> O <sub>4</sub>	
	2,6-BIS(1,1-DIMETHYLETHYL)PHENOL OR 2,6-DI-TERT-BUTYLPHENOL	23.99	C <sub>14</sub> H <sub>22</sub> O	
	2-HEXADECEN-1-OL, 3,7,11,15,- TETRAMETHYL OR PHYTOL	25.29	C <sub>20</sub> H <sub>40</sub> O	
	2,4-BIS(DIMETHYLBENZYL)-6-T- BUTYLPHENOL	32.66	C <sub>28</sub> H <sub>34</sub> O	
	2,6,10-TRIMETHYL-2,6,10- DODECATRIENE	37.42		
	TRIMETHYL[4-(1,1,3,3,- TETRAMETHYLBUTYL) PHENOXY	44.81		

	<b>PENTANE, 2,3,3-TRIMETHYL</b>	<b>20.8</b>	
<b>roots (chloroform)</b>	1,2-BENZENEDICARBOXYLIC ACID OR PHTHALIC ACID	30.56	C8H6O4
	PENTADECANE	37.62	
	TETRACOSANE	40.93	H(CH <sub>2</sub> ) <sub>24</sub> H
	EICOSENE, 9-OCTYL	43.94	
<b>Leaves (chloroform)</b>	1,2-BENZENEDICARBOXYLIC ACID OR PHTHALIC ACID	28.18	C8H6O4
	DODECANE, 1,1'-OXYBIS- OR 1-DODECOXYDODECANE	30.56	C <sub>24</sub> H <sub>50</sub> O
	(2S,3R)-3-DIMETHYL-T-BUTYLSILO	43.94	-----
	TRANS-STIGMASTA-5,22-DIEN-3.BETA OR STIGMASTERIN OR STIGMASTEROL	46.69	C <sub>29</sub> H <sub>48</sub> O
	GAMMA-SITOSTEROL OR CLIONASTEROL	51.2 51.76	C <sub>29</sub> H <sub>50</sub> O
<b>Fruits (Petroleum ether)</b>	HEXADECANOIC ACID OR PALMITIC ACID	14.46	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>
	OCTADECANE	25.99	
	2,6,10,15,19,23-HEXAMETHYL-2,6	27.52	
	TETRATETRACONTANE	31.29.	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>42</sub> CH <sub>3</sub>
	TETRACONTANE	33.67	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>38</sub> CH <sub>3</sub>