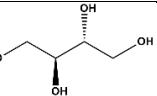
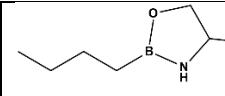
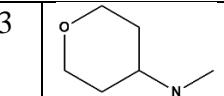
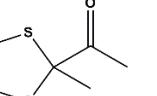
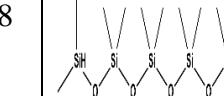
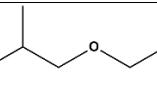
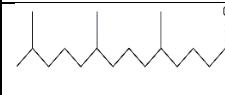
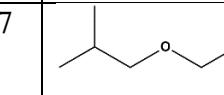


Supplementary Table 1. Gas Chromatography-Mass Spectrometric (GC-MS) profile of *M. lutea* active extracts.

Ethanol Stembark				Methanol Leaf				Methanol Stembark			
Ret. Tim e	Compound (molecular weight)	% Are a	Structure	Ret. Tim e	Compound (molecular weight)	% Are a	Structure	Ret. Tim e	Compound (molecular weight)	% Are a	Structure
4.45 8	Glyceraldehy de (90.08 g/mol)	1.2 9		4.02 5	2- Furanmethan ol (98.10 g/mol)	0.2 4		4.50 8	Glyceraldehy de (90.08 g/mol)	2.0 8	
4.79 2	2-methyl Cyclopentano ne (98.14 g/mol)	0.3 0		4.58	2,4- Dihydroxy- 2,5-dimethyl- 3(2H)-furan- 3-one (144.12 g/mol)	0.9 9		6.21 7	Acetamide, 2,2,2- trifluoro-N- [2- (hexahydro- 1(2H)- azocinyl)ethyl] l-	1.0 7	

								(252.28 g/mol)			
6.11 7	Thymine (126.11 g/mol)	1.0 7		5.75 8	[4-(Acetyl-methyl-amino)-cyclohexylamino]-acetic acid (228.29 g/mol)	1.4 0		6.37 5	4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl-(144.12 g/mol)	5.3 6	
6.28 0	4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl-(144.12 g/mol)	3.7 1		5.95 0	4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl-(144.12 g/mol)	9.0 7		7.79 2	2,2,6-trimethyl-12-oxabicyclo[8.2.1]tridec-10(13)-ene-5,11-dione	1.2 0	

6.74 6	Erythritol (122.12 g/mol)	2.6 1		10.5 91	2-butyl-4- methyl- 1,3,2- Oxazaborolid- ine (141.02 g/mol)	0.1 5		8.06 7	N- Methyltetrahy- dro-2H-pyran- 4-amine, TMS (115.17 g/mol)	1.3 2	
7.40 0	Ketone, methyl 2- methyl-1,3- oxothiolan-2- yl (146.21 g/mol)	0.1 2- 4		11.9 87	3-Eicosyne (278.5 g/mol)	1.7 9		8.22 8	Hexasiloxane, 1,1,3,3,5,5,7,7 ,9,9,11,11- dodecamethyl- (428.92 g/mol)	0.8 2	
8.65 6	2- (Isobutoxymet- hyl)oxirane	7.4 6		12.1 08	2- Pentadecano	0.4 4		8.83 1	2- (Isobutoxymet- hyl)oxirane	7.7 3	

	(130.18 g/mol)				ne, 6,10,14- trimethyl- (268.5 g/mol)			(130.18 g/mol)			
10.2 08	5-Ethyl-1,3- dioxane-5- methanol, tert- butyldimethyl silyl ether (274.47 g/mol)	0.6 5		12.2 35	3,7,11,15- Tetramethyl- 2-hexadecen- 1-ol	0.2 5		8.95 0	Phenol, 3,5- bis(1,1- dimethylethyl)- (206.32 g/mol)	2.5 2	
10.4 26	Ethyl alpha-d- glucopyranosi- de (208.21 g/mol)	19. 35		12.4 26	3,7,11,15- Tetramethyl- 2-hexadecen- 1-ol (296.5 g/mol)	0.2 4		9.06 7	Octaethylene glycol monododecyl ether (538.8g/mol)	0.6 8	

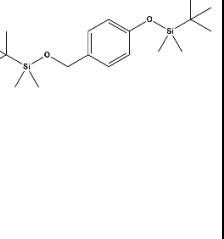
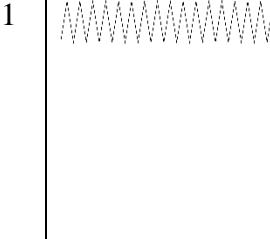
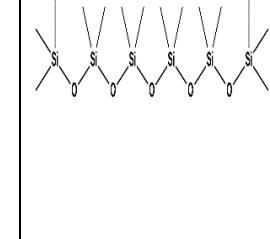
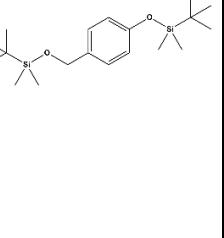
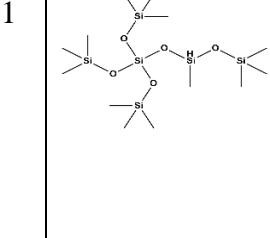
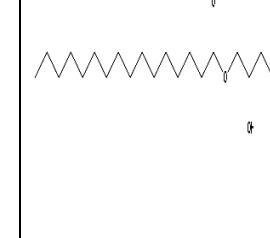
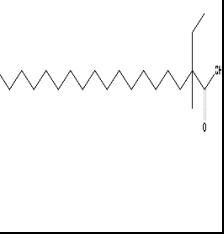
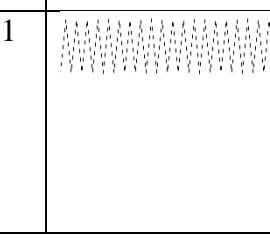
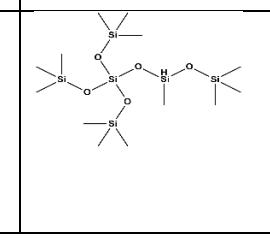
12.9 33	Hexadecanoic acid, methyl ester (270.5 g/mol)	0.3 1		12.9 23	Hexadecanoic acid, methyl ester (270.5 g/mol)	0.7 3		13.7 54	Pentadecanoic acid (242.40 g/mol)	11. 67	
13.3 65	Cyclopropane nonanoic acid, 2-[(butycyclopropyl)methyl]-, methyl ester (322.5 g/mol)	0.3 3		13.4 33	Pentadecanoic acid (242.40 g/mol)	9.1 7		14.2 08	2,6-Dihydroxybenzoic acid, 3TMS derivative (370.66 g/mol)	0.7 1	
13.5 00	Pentadecanoic acid (242.40 g/mol)	3.9 6		14.4 90	Methyl 10-trans, 12-cis-octadecadienoate (294.5 g/mol)	0.3 8		14.6 53	9-Octadecenoic acid(Z)-, methyl ester (296.49 g/mol)	0.9 9	

13.5 61	Hexadecanoic acid, ethyl ester (285.5 g/mol)	9.6 6		14.5 49	9,12,15-Octadecatrienoic acid, methyl ester (292.5 g/mol)	1.3 4		14.8 70	Methyl stearate (298.5 g/mol)	1.1 8	
13.8 92	Avocadyne, 2Ac derivative (284.4 g/mol)	1.1 3		14.6 28	Phytol (296.5 g/mol)	13. 92		15.3 81	6-Octadecenoic acid, (Z)- (282.5 g/mol)	5.8 4	
14.4 83	Ethyl 14-methyl-hexadecanoate (298.5 g/mol)	14- 9		14.9 75	2-Hexadecen-1-ol, 3,7,11,15-tetramethyl, acetate (338.6 g/mol)	0.1 0		15.4 50	1,1,1,5,7,7,7-Heptamethyl-3,3-bis(trimethylsiloxy)tetrasiloxane	5.5 0	

									(443.96 g/mol)		
14.5 70	9-Octadecenoic acid (Z)-, methyl ester (296.49 g/mol)	0.3 4		15.0 92	Ethanol, 2-(9-Octadecenyl oxy)-(Z)- (312.5 g/mol)	3.6 0		15.5 58	Cyperadione (236.35 g/mol)	2.4 0	
14.6 70	Phytol (296.5 g/mol)	0.9 3		15.1 71	1,8,11,14-Heptadecatetraene, (Z,Z,Z)- (232.4 g/mol)	7.8 0		15.6 50	Eicosyl acetate (340.6 g/mol)	4.4 5	
14.7 93	Methyl stearate (298.5 g/mol)	0.2 3		15.3 00	Octadecanoic acid, 2-(2-	9.3 6		16.6 42	1,1,1,5,7,7,7-Heptamethyl-3,3-	0.7 7	

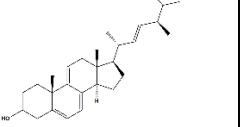
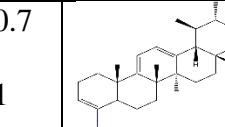
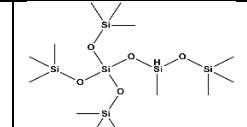
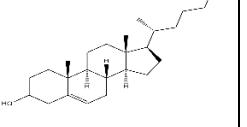
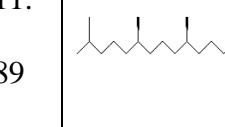
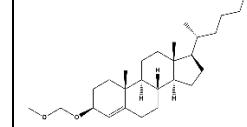
					hydroxyethoxyethyl ester (372.58 g/mol)			bis(trimethylsiloxy)tetrasiloxane (443.96 g/mol)			
15.1 60	E,E,Z-1,3,12-e-5, 14-diol (294.5 g/mol)	18. 83		16.7 92	4,8,12,16-Tetramethylheptadecan-4-oxide (324.5 g/mol)	0.2 8		17.1 57	Hexanedioic acid, bis(2-ethylhexyl)ester (370.57 g/mol)	6.9 0	
15.3 86	Ethyl methyl-tetradecanoate (270.5 g/mol)	12. 09		17.0 79	Hexanedioic acid, bis(2-ethylhexyl)ester (370.57 g/mol)	0.3 9		17.3 10	2,2,4,4,5,5,7,7-Octamethyl-3,6-dioxa-2,7-disilaoctane (262.54 g/mol)	0.7 1	

16.7 24	Ferruginol (286.5 g/mol)	0.4 6		17.6 77	1,1,1,5,7,7,7- Heptamethyl -3,3- bis(trimethyl siloxy) tetrasiloxane (443.96 g/mol)	0.1 1		17.7 20	1,1,1,5,7,7,7- Heptamethyl- 3,3- bis(trimethylsi loxy) tetrasiloxane (443.96 g/mol)	1.0 4	
17.1 11	Hexanedioic acid, bis(2- ethylexyl) ester (370.57 g/mol)	1.1 7		18.7 12	1,1,1,5,7,7,7- Heptamethyl -3,3- bis(trimethyl siloxy) tetrasiloxane (443.96 g/mol)	0.2 7		17.9 79	Eicosane (282.5 g/mol)	1.3 0	

17.3 00	4-Hydroxybenzyl alcohol, 2TBDMS derivative (352.7 g/mol)	0.3 3		19.4 88	Hexatriacontane (507.00 g/mol)	0.1 8		18.4 09	Hexasiloxane, tetradecamethyl-yl- (458.99 g/mol)	1.1 1	
18.3 87	4-Hydroxybenzyl alcohol, 2TBDMS derivative (352.7 g/mol)	0.2 8		19.7 00	1,1,1,5,7,7,7-Heptamethyl-3,3-bis(trimethylsiloxy)tetrasiloxane (443.96 g/mol)	0.1 1		18.5 42	Glycerol 1-palmitate (330.5 g/mol)	0.9 5	
18.5 42	Butyric acid, 2-methyl-, heptadecyl	0.2 0		20.2 05	Tetratetraconane (619.2 g/mol)	0.1 5		18.7 54	1,1,1,5,7,7,7-Heptamethyl-3,3-	2.0 2	

	(200.32 g/mol)							bis(trimethylsi loxy)tetrasilox ane (443.96 g/mol)		
18.7 58	Dihydrophyto l, TMS derivative (370.7 g/mol)	0.3 1		20.3 19	Squalene (410.7 g/mol)	10. 52		19.5 34	Hexatriaconta ne (507.0 g/mol)	0.9 0
19.5 14	Tetratetracont ane (619.2 g/mol)	0.1 6		20.9 14	Hexatriacont ane (507.0 g/mol)	0.4 0		19.7 21	1,1,1,5,7,7,7- Heptamethyl- 3,3- bis(trimethylsi loxy)tetrasilox ane (443.96 g/mol)	1.8 1

19.7	1,1,1,5,7,7,7,-3,3-bis(trimethylsiloxy)tetrasiloxane (443.96 g/mol)	0.2		21.0	1,6,10,14,18,22-Tetracosahexaen-3-ol (342.6 g/mol)	0.1		19.9	1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (390.6 g/mol)	5.8	
19.9	1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (390.6 g/mol)	0.5		22.0	γ -Tocopherol (416.7 g/mol)	0.2		20.2	Hexatriacontane (507.0 g/mol)	0.8	
17	Heptamethyl-3,3-bis(trimethylsiloxy)tetrasiloxane (443.96 g/mol)	4		58	-	2		33	1,3-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (390.6 g/mol)	9	

20.3 45	Squalene (410.7 g/mol)	0.2 0		22.1 42	24-Norursa-3,9(11),12-triene (392.7 g/mol)	2.8 3		20.3 62	Squalene (410.7 g/mol)	0.8 5	
21.5 07	Ergosta-5,7,9(11),22-tetraen-3-ol, (3 β ,22E) (394.63 g/mol)	0.2 8		22.3 76	24-Norursa-3,9(11),12-triene (392.7 g/mol)	0.7 1		20.6 44	1,1,1,5,7,7,7-Heptamethyl-3,3-bis(trimethylsiloxy)tetrasiloxane (443.96 g/mol)	0.7 0	
22.7 38	Cholesterol (386.7 g/mol)	2.0 4		22.6 62	Vitamin E (430.71 g/mol)	11. 89		22.7 60	Cholest-4-ene, 3. beta-(methoxymethoxy)- (384.6 g/mol)	2.1 1	

23.6 96	Ergost-5-en3-ol, (3 β) (400.7 g/mol)	0.4 5		23.0 36	(2E,4S,7E)-4-Isopropyl-1,7-dimethylcyclodeca-2,7-dienol (222.37 g/mol)	0.8 1		23.7 00	Campesterol (400.7 g/mol)	0.9 7	
23.9 36	Stigmasterol (412.7 g/mol)	2.0 9		23.0 36	Stigmasterol (412.7 g/mol)	0.6 8		23.9 53	Stigmasterol (412.7 g/mol)	2.8 2	
24.5 90	γ -Sitosterol (414.7 g/mol)	6.5 3		24.5 17	γ -Sitosterol (414.7 g/mol)	9.3 1		24.6 08	γ -sitosterol (414.7 g/mol)	12. 75	