Supplementary

Egyptian Journal of Botany
http://ejbo.journals.ekb.eg/

SUPPL. TABLE 1. GC-MS analysis shows the chemical components of untreated *D. salina* cells

No.	RT (min)	Compound name	%	MW	M formula
1	4.06	Thieno (3,4- C) pyridine,1,3,4,7tetraphenyl	4.86	439	$C_{31}H_{21}NS$
2	9.92	ά-Hydroxyquebrachamine	1.02	298	$C_{19}H_{26}N_2O$
3	12.38	5 ά-Pregn-16-en-20-one, ά,12ά-dihydroxy-, diacetate	0.83	416	$C_{25}H_{36}O_5$
4	12.87	Cyclooctasiloxane, hexadecamethyl-	1.14	592	$C_{16}H_{48}O_8Si_8$
5	14.60	3,6,2',3'-Tetramethoxyflavone	0.83	342	$C_{19}H_{18}O_6$
6	15.13	Cyclononasiloxane, octadecamethyl-	1.02	666	$C_{18}H_{54}O_9Si_9$
7	16.63	Trimethylsilyl 3-methoxy-2-(2-oxo-2-((trimethylsilyl) oxy) ethoxy) benzoate	0.63	370	$C_{16}H_{26}O_6Si_2$
8	16.73	Celidoniol, deoxy (Nonacosane)	1.92	408	$C_{29}H_{60}$
9	17.10	Glycine, N-[(3ά,5ά)-24-oxo-3-[(trimethylsilyl) oxy]cholan-24-yl]-, methyl ester	0.43	519	$C_{30}H_{53}NO_4Si$
10	17.24	Octacosane (AI3-52615)	4.89	394	$C_{28}H_{58}$
11	17.67	1-chlorooctadecane	1.28	288	$C_{18}H_{37}Cl$
12	18.51	Dihydromorphine, 2TMS derivative (Dihydromorphine , di(trimehylsilyl) ether)	0.82	431	$C_{23}H_{37}NO_3Si_2$
13	18.91	Propanoic acid,2-(3-acetoxy-4,4,14-trimethylandrost 8-en-17-yl)-	0.64	430	$C_{27}H_{42}O_4$
14	20.26	Dodecyl cis-9,10-epoxyoctadecanoate	0.91	466	$C_{30}H_{58}O_3$
15	20.33	Palmitic acid, 2-(tetradecyloxy) ethyl ester	0.98	496	$C_{32}H_{64}O_3$
16	20.58	Bistrimethylsilyl N-acetyleicosasphinga -4,11-dienine	0.60	511	$C_{28}H_{57}NO_3Si_2$
17	21.61	9-hexadecenoic acid, methyl ester (Z)	24.10	270	$C_{17}H_{34}O_2$
18	21.89	Pentadecanoic acid, 14 methyl-methyl ester	1.31	270	$C_{17}H_{34}O_2$
19	22.14	9,12-octadecadienoic acid (Z,Z),2,3-bis[(trimethylsilyl) oxy]propyl ester	0.62	498	$C_{27}H_{54}O_4Si_2$
20	23.11	Cyclopropaneoctanoic acid, 2-octyl-,methyl ester	1.33	310	$C_{20}H_{38}O_2$
21	23.41	4H-1-benzopyran -4-one, 2-(3,4-di-methoxyphenyl)-3,5-dihydroxy-7-methoxy -(3',4',7-trimethylquercetin)	0.57	344	$C_{18}H_{16}O_7$
22	23.63	1H-purin-6-amine,(2-fluorophenyl) methyl	0.92	243	$C_{12}H_{10}FN_5$
23	24.18	10-Octadecenoic acid, methyl ester	27.67	296	$C_{19}H_{36}O_2$
24	24.41	12,15-Octadecadienoic acid, methyl ester	10.16	294	$C_{19}H_{34}O_2$
25	24.85	Linoleic acid ethyl ester	0.36	308	$C_{20}H_{36}O_2$
26	25.05	9,12,15-octadecatrienoicacid,2,3- bis [(trimethylsilyl) oxy] propylester,(Z,Z,Z)-(Linolenic-acid)	0.66	496	$C_{27}H_{52}O_4Si_2$
27	25.47	9,12- Octadecadienoic acid(Z,Z)-,methyl ester	1.01	308	$C_{20}H_{36}O_2$,
28	25.56	8,11-Octadecadienoic acid, methyl ester	1.41	294	$C_{19}H_{34}O_2$
29	25.95	10,13-octadecadienoic acid, methyl ester	2.98	294	$C_{19}H_{34}O_2$
30	26.23	1,9-Dioxa-5-thianonane,3,7-bis(9 bor abicyclo [3.3.1]non-9-yloxy)-1,9-diphenyl-	0.38	574	$C_{34}H_{48}B_2O_4S$
31	26.40	Methyl glycocholate, 3TMS derivative , glycine, N-[(3ά,5ά,7ά,12ά)-24-oxo-3,7,12-tris [(trimethyl silyl)oxy] cholan-24-yl]-, methyl ester	0.58	695	$C_{36}H_{69}NO_6Si_3$
32	28.94	Methyl-9,9,10,10-D4 octadecanoate	1.16	302	$C_{19}H_{34}D_4O_2$
33	30.74	Cyclopropanedecanoic acid ά-(Acetyloxy)-2-hexyl-,methyl ester	0.78	368	$C_{22}H_{40}O_4$
34	42.82	Psi.,.psi.-carotene -16-ol (Lycoxanthin)	0.74	552	$C_{40}H_{56}O$
35	44.80	Cyclotrisiloxane, hexaphenyl- (Diphenylsiloxane cyclic trimer)	0.47	594	$C_{36}H_{30}O_3Si_3$

SUPPL. TABLE 2. GC-MS analysis shows the chemical components of N deficiency-treated *D. salina*

No.	RT (min)	Name of compound	(%)	MW	M formula
1.	10.01	1, 7, 7-Trimthyl-Bicyclo [2.2.1]Heptan-2-one	1.20	152	$C_{10}H_{16}O$
2.	15.25	1-Tetradecanol	1.59	214	$C_{14}H_{30}O$
3.	16.30	Phenol-2,4-bis(1,1 dimethyl ethyl)	28.52	206	$C_{14}H_{22}O$
4.	18.39	7-Heptadecene, 1-Chloro	1.28	272	$C_{17}H_{33}Cl$
5.	19.01	DI (phenyl thio) (P Methoxyphenyl) Mathane	1.70	338	$C_{20}H_{18}OS_2$
6.	20.04	1,3,6,10-Cyclotetradecatetraene 3,7,11-trimethyl-14-(1-methylethyl)-, [S-(E,Z,E,E)]	1.54	272	$C_{20}H_{32}$
7.	20.16	Kaur-16-Ene	1.66	272	$C_{20}H_{32}$
8.	20.35	(4-Methoxyphenyl)-2-Methyl-6 Methoxy-+ Benz imidazole	3.40	268	$C_{16}H_{16}N_2O_2$
9.	20.64	4-Methoxyphenoxyformamide, N-methyl-N-[4-(1-pyrrolidinyl)-2-butynyl]-	1.27	302	$C_{17}H_{22}N_2O_3$
10.	21.27	ATIS-16-ENE, (5ά,8ά,9ά,10ά,12ά)-	1.51	272	$C_{20}H_{32}$
11.	21.71	Geranyl-α-terpinene	3.85	272	$C_{20}H_{32}$
12.	21.94	Phenanthrene,7ethenyl1,2,3,4,4A,4β,5,6,7,9, 10,10A-dodecahydro-1,1,4A,7 tetra methyl-,[4AS-(4Aά,4βά,7ά,10Aά)]	1.17	272	$C_{20}H_{32}$
13.	22.12	3-Phenanthrenol,4β,5,6,7,8,8A,9,10 octahydro-4β,8,8-Trimethyl-,(4BS-Trans)	2.15	244	$C_{17}H_{24}O$
14.	22.3	Naphthalene propanol, ά ethenyldecahydro ά,5,5,8α-tetrame thyl-2-methylene-,[1S[1ά(S*),4αά,8 αά]	0.83	290	$C_{20}H_{34}O$
15.	22.59	1,2-Diaza-3-Silacylopent-5-ENE, 2-(1,1dimethyl ethyl)-3,3,5-Trimethyl-4 (phenyl Methylene)-, (Z)	1.53	272	$C_{16}H_{24}N_2Si$
16.	22.82	Retinol	1.00	286	$C_{20}H_{30}O$
17.	23.57	Dehydro isoandrosterone acetate	1.11	330	$C_{21}H_{30}O_3$
18.	23.87	Bactroiochlorphyll-c-stearyl	1.63	840	$C_{52}H_{72}MgN_4O_4$
19.	24.16	Indolo[2,3-α]quinolizin-4(12H)-one 1,2,3,6,7,12b-hexahydro-3,12b-dimethyl	8.84	268	$C_{17}H_{20}N_2O$
20.	24.25	phennthrene,1,2,3,4,4A,9,10,10A-octahydro-1,1,4A-Trimethyl-7-(1-methyl Ethyl), (4AS-TRANS)	1.69	270	$C_{20}H_{30}$
21.	24.46	Estrone	3.87	270	$C_{18}H_{22}O_2$
22.	26.30	Oleic Acid	6.78	282	$C_{18}H_{34}O_2$
23.	30.72	1,2-Benzenedicatrienoic acid	2.03	390	$C_{24}H_{38}O_4$
24.	31.51	9,19-Cyclolanost-24-en-3-ol, acetate,(3 ά)	1.55	468	$C_{32}H_{52}O_2$
25.	31.90	9,12,15-octadecatrienioc acid, (2-phenyl-1,3-Dioxolan-4-YL) Methylester	1.49	440	$C_{28}H_{40}O_4$
26.	32.16	Psi psi.-carotene	3.12	600	$C_{42}H_{64}O_2$
27.	32.38	α-Carotene	6.15	536	$C_{40}H_{56}$
28.	33.48	3,5,6,9,11,12,13,14,17,18,21,22,23,24,25,26-Hexadecahydro4Hdicycl odeca[C,J]Oxacyclo Tetradecin	1.88	406	$C_{29}H_{42}O$
29.	33.58	α,α-Carotene-4,4'-Dione,3,3'-Dihydroxy-, (3S,3'S)-	3.80	596	$C_{40}H_{52}O_4$
30.	39.02	3A,6,6,12A-Tetramethyl-1-[1-Methyl-4-OXO-4-Phenyl-2-buteny] Tetracahydro-1H Cyclopenta [A] cyclopropa [E]phenanthren-7-YL Acetate	1.96	516	$C_{35}H_{48}O_3$