

Method: PLFAD1

Soil Microbial Community Analysis

Version: 1.30

Description: Method PLFAD1 for PLFA analysis

Compound Naming Table:

Index	Peak Name	IUPAC / Systematic Name	Other Names
1	10:0	Decanoic acid	Capric acid
2	11:0 iso	9-Methyldecanoic acid	9-Methylcapric acid
3	11:0 anteiso	8-Methyldecanoic acid	8-Methylcapric acid
4	11:0	Undecanoic acid	Undecylic acid
5	10:0 2OH	2-Hydroxydecanoic acid	2-Hydroxycapric acid
6	10:0 3OH	3-Hydroxydecanoic acid	3-Hydroxycapric acid
0	Phthalate 1	---	---
7	12:0 iso	10-Methylundecanoic acid	Isolauric acid
8	12:0 anteiso	9-Methylundecanoic acid	Anteisolauric acid
9	12:1 w8c	(4Z)-4-Dodecenoic acid	---
10	12:1 w4c	(8Z)-8-Dodecenoic acid	---
11	12:0	Dodecanoic acid	Lauric acid
0	11:0 iso 3OH	3-Hydroxy-9-Methyldecanoic acid	---
12	12:0 DMA	1,1-Dimethoxydodecane	Dodecanal dimethyl acetal
13	13:0 iso	11-Methyldodecanoic acid	Isotridecanoic acid
14	13:0 anteiso	10-Methyldodecanoic acid	Anteiotridecanoic acid
15	13:1 w5c	(8Z)-8-Tridecenoic acid	---
16	13:1 w4c	(9Z)-9-Tridecenoic acid	---
17	13:1 w3c	(10Z)-10-Tridecenoic acid	---
18	13:0	Tridecanoic acid	Tridecylic acid
0	12:0 2OH	2-Hydroxydodecanoic acid	2-Hydroxylauric acid
19	14:1 iso w7c	(6Z)-12-Methyl-6-Tridecenoic acid	---
20	13:0 DMA	1,1-Dimethoxytridecane	Tridecanal dimethyl acetal
21	14:0 iso	12-Methyltridecanoic acid	Isomyristic acid
22	14:0 anteiso	11-Methyltridecanoic acid	Anteiotomyristic acid
23	14:1 w9c	(5Z)-5-Tetradecenoic acid	---
24	14:1 w8c	(6Z)-6-Tetradecenoic acid	---
25	14:1 w7c	(7Z)-7-Tetradecenoic acid	---
26	14:1 w5c	(9Z)-9-Tetradecenoic acid	Myristoleic acid
27	15:0 aldehyde	Pentadecanal	---
28	14:0	Tetradecanoic acid	Myristic acid
0	14:0 iso 3OH	3-Hydroxy-12-Methyltridecanoic acid	---
29	14:1 w7c DMA	(7Z)-1,1-Dimethoxy-7-Tetradecene	---
30	15:1 iso w9c	(5Z)-13-Methyl-5-Tetradecenoic acid	---
31	15:1 iso w6c	(8Z)-13-Methyl-8-Tetradecenoic acid	---
32	14:0 DMA	1,1-Dimethoxytetradecane	Tetradecanal dimethyl acetal
33	15:4 w3c	(3Z,6Z,9Z,12Z)-3,6,9,12-Pentadecatetraenoic acid	---
34	15:1 anteiso w9c	(5Z)-12-Methyl-5-Tetradecenoic acid	---
35	15:0 iso	13-Methyltetradecanoic acid	13-Methylmyristic acid
36	15:3 w3c	(6Z,9Z,12Z)-6,9,12-Pentadecatrienoic acid	---
37	15:0 anteiso	12-Methyltetradecanoic acid	12-Methylmyristic acid
38	15:1 w9c	(6Z)-6-Pentadecenoic acid	---
39	15:1 w8c	(7Z)-7-Pentadecenoic acid	---
40	15:1 w7c	(8Z)-8-Pentadecenoic acid	---
41	15:1 w6c	(9Z)-9-Pentadecenoic acid	---
42	15:1 w5c	(10Z)-10-Pentadecenoic acid	---

43	16:1 w9c aldehyde	(7Z)-7-Hexadienal	---
44	16:0 aldehyde	Palmitaldehyde	Hexadecanal
45	15:0	Pentadecanoic acid	Pentadecylic acid
46	15:0 iso DMA	13-Methyl-1,1-Dimethoxypentadecane	---
0	14:0 2OH	2-Hydroxytetradecanoic acid	2-Hydroxymyristic acid
47	16:1 w7c alcohol	(9Z)-9-Hexadecen-1-ol	Palmitoleyl alcohol
48	15:0 DMA	1,1-Dimethoxypentadecane	Pentadecanal dimethyl acetal
49	16:4 w3c	(4Z,7Z,10Z,13Z)-4,7,10,13-Hexadecatetraenoic acid	---
50	16:0 N alcohol	1-Hexadecanol	Cetyl Alcohol
51	16:3 w6c	(4Z,7Z,10Z)-4,7,10-Hexadecatrienoic acid	---
52	16:0 iso	14-Methylpentadecanoic acid	Isopalmitic acid
53	16:0 anteiso	13-Methylpentadecanoic acid	Anteisopalmitic acid
54	16:1 w9c	(7Z)-7-Hexadecenoic acid	cis-7-Palmitoleic acid
55	16:1 w8c	(8Z)-8-Hexadecenoic acid	cis-8-Palmitoleic acid
56	16:1 w7c	(9Z)-9-Hexadecenoic acid	Palmitoleic acid
57	16:1 w6c	(10Z)-10-Hexadecenoic acid	cis-10-Palmitoleic acid
58	16:1 w5c	(11Z)-11-Hexadecenoic acid	cis-11-Palmitoleic acid
59	16:1 w4c	(12Z)-12-Hexadecenoic acid	cis-12-Palmitoleic acid
60	16:1 w3c	(13Z)-13-Hexadecenoic acid	cis-13-Palmitoleic acid
61	16:0	Hexadecanoic acid	Palmitic acid
62	16:2 DMA	1,1-Dimethoxyhexadecadiene	---
63	16:1 w9c DMA	(7Z)-1,1-Dimethoxy-7-Hexadecene	---
64	16:1 w7c DMA	(9Z)-1,1-Dimethoxy-9-Hexadecene	---
65	16:1 w5c DMA	(11Z)-1,1-Dimethoxy-11-Hexadecene	---
66	17:1 iso w10c*	(6Z)-15-Methyl-6-Hexadecenoic acid	
67	16:0 10-methyl	10-Methylhexadecanoic acid	10-Methylpalmitic acid
68	16:0 DMA	1,1-Dimethoxyhexadecane	Hexadecanal dimethyl acetal
69	17:1 iso w9c	(7Z)-15-Methyl-7-Hexadecenoic acid	---
70	17:1 anteiso w9c	(7Z)-13-Methyl-7-Hexadecenoic acid	---
71	17:1 anteiso w7c	(9Z)-13-Methyl-9-Hexadecenoic acid	---
72	17:0 iso	15-Methylhexadecanoic acid	Isomargaric acid
73	17:0 anteiso	14-Methylhexadecanoic acid	Anteisomargaric acid
74	17:1 w9c	(8Z)-8-Heptadecenoic acid	---
75	17:1 w8c	(9Z)-9-Heptadecenoic acid	cis-Margaroleic acid
76	17:1 w7c	(10Z)-10-Heptadecenoic acid	---
77	17:1 w6c	(11Z)-11-Heptadecenoic acid	---
78	17:0 cyclo w7c	cis-9,10-Methylene-Hexadecanoic acid	---
79	17:1 w5c	(12Z)-12-Heptadecenoic acid	---
80	17:1 w4c	(13Z)-13-Heptadecenoic acid	---
81	17:1 w3c	(14Z)-14-Heptadecenoic acid	---
82	17:0	Heptadecanoic acid	Margaric acid
83	17:1 w7c 10-methyl	(10Z)-10-Methyl-10-Heptadecenoic acid	---
84	16:0 2OH	2-Hydroxyhexadecanoic acid	2-Hydroxypalmitic acid
85	17:0 10-methyl	10-Methylheptadecanoic acid	---
86	17:0 DMA	1,1-Dimethoxyheptadecane	Heptadecanal dimethyl acetal
87	18:3 w6c	(6Z,9Z,12Z)-6,9,12-Octadecatrienoic acid	Gamma-linolenic acid (GLA)
88	18:0 iso	16-Methylheptadecanoic acid	Isostearic acid
89	18:4 w3c*	(6Z,9Z,12Z,15Z)-6,9,12,15-Octadecatetraenoic acid	Stearidonic acid (SDA)
90	18:2 w6c	(9Z,12Z)-9,12-Octadecadienoic acid	Linoleic acid (LA)
91	18:1 w9c	(9Z)-9-Octadecenoic acid	Oleic acid
92	18:1 w8c	(10Z)-10-Octadecenoic acid	cis-10-Oleic acid
93	18:1 w7c	(11Z)-11-Octadecenoic acid	cis-Vaccenic acid
94	18:1 w6c	(12Z)-12-Octadecenoic acid	cis-12-Oleic acid
95	18:1 w5c	(13Z)-13-Octadecenoic acid	cis-13-Oleic acid
96	18:1 w3c	(15Z)-15-Octadecenoic acid	cis-15-Oleic acid
97	18:0 cyclo w6c	cis-13,14-Methylene-Heptadecanoic acid	---
98	18:0	Octadecanoic acid	Stearic acid
99	18:1 w7c 10-methyl	(11Z)-10-Methyl-11-Octadecenoic acid	---
100	17:0 iso 3OH*	3-Hydroxy-15-Heptadecanoic acid	
101	18:2 DMA	1,1-Dimethoxyoctadecadiene	---
102	18:1 w9c DMA	(9Z)-1,1-Dimethoxy-9-Octadecene	---

103	18:1 w7c DMA	(11Z)-1,1-Dimethoxy-11-Octadecene	---
104	18:1 w5c DMA	(13Z)-1,1-Dimethoxy-13-Octadecene	---
105	18:0 10-methyl	10-Methyloctadecanoic acid	Tuberculostearic acid
106	18:0 DMA	1,1-Dimethoxyoctadecane	Octadecanal dimethyl acetal
107	19:4 w6c	(4Z, 7Z,10Z,13Z)-4,7,10,13-Nonadecatetraenoic acid	---
108	19:3 w6c	(7Z,10Z,13Z)-7,10,13-Nonadecatrienoic acid	---
109	19:0 iso	17-Methyloctadecanoic acid	17-Methylstearic acid
110	19:3 w3c	(10Z,13Z,16Z)-10,13,16-Nonadecatrienoic acid	---
111	19:0 anteiso	16-Methyloctadecanoic acid	16-Methylstearic acid
112	19:1 w9c	(10Z)-10-Nonadecenoic acid	---
113	19:1 w8c	(11Z)-11-Nonadecenoic acid	---
114	19:1 w7c	(12Z)-12-Nonadecenoic acid	---
115	19:1 w6c	(13Z)-13-Nonadecenoic acid	---
116	19:0 cyclo w9c	cis-9,10-Methylene-Octadecanoic acid	Dihydrosterculic acid
117	19:0 cyclo w7c	cis-11,12-Methylene-Octadecanoic acid	Lactobacillic acid
118	19:0 cyclo w6c	cis-12,13-Methylene-Octadecanoic acid	---
0	19:0	Nonadecanoic	Nonadecylic acid
119	19:1 w7c 10-methyl	(12Z)-10-Methyl-12-Nonadecenoic acid	---
120	19:0 cyclo 9,10 DMA	cis-9,10-Methylene-1,1-Dimethoxyoctadecane	---
121	20:4 w6c	(5Z,8Z,11Z,14Z)-5,8,11,14-Icosatetraenoic acid	Arachidonic acid (AA)
122	20:5 w3c	(5Z,8Z,11Z,14Z,17Z)-5,8,11,14,17-Icosapentaenoic acid	Eicosapentaenoic acid (EPA)
123	20:3 w6c	(8Z,11Z,14Z)-8,11,14-Icosatrienoic acid	Dihomo-gamma-linolenic acid (DGLA)
124	20:0 iso	18-Methylnonadecanoic acid	Isoarachidic acid
125	20:2 w6c	(11Z,14Z)-11,14-Icosadienoic acid	Eicosadienoic acid
126	20:1 w9c	(11Z)-11-Icosenoic acid	Gondoic acid
127	20:1 w8c	(12Z)-12-Icosenoic acid	
128	20:1 w6c	(14Z)-14-Icosenoic acid	---
129	20:1 w4c	(16Z)-16-Icosenoic acid	---
130	20:0 cyclo w6c	cis-13,14-Methylene-Nonadecanoic acid	---
131	20:0	Icosanoic acid	Arachidic acid
132	20:0 10-methyl	10-Methylicosanoic acid	---
133	21:3 w6c	(9Z,12Z,15Z)-9,12,15-Heneicosatrienoic acid	---
134	21:3 w3c	(12Z,15Z,18Z)-12,15,18-Heneicosatrienoic acid	---
135	21:1 w9c	(12Z)-12-Heneicosenoic acid	---
136	21:1 w8c	(13Z)-13-Heneicosenoic acid	---
137	21:1 w6c	(15Z)-15-Heneicosenoic acid	---
138	21:1 w5c	(16Z)-16-Heneicosenoic acid	---
139	21:1 w4c	(17Z)-17-Heneicosenoic acid	---
140	21:1 w3c	(18Z)-18-Heneicosenoic acid	---
141	21:0	Heneicosanoic acid	Heneicosylic acid
142	22:5 w6c	(4Z,7Z,10Z,13Z,16Z)-4,7,10,13,16-Docosapentaenoic acid	Osbond acid
143	22:6 w3c	(4Z,7Z,10Z,13Z,16Z,19Z)-4,7,10,13,16,19-Docosahexaenoic acid	Docosahexaenoic acid (DHA)
144	22:4 w6c	(7Z,10Z,13Z,16Z)-7,10,13,16-Docosatetraenoic acid	Adrenic acid
145	22:5 w3c	(7Z,10Z,13Z,16Z,19Z)-7,10,13,16,19-Docosapentaenoic acid	Docosapentaenoic (DPA)
146	22:0 iso	20-Methylhenicosanoic acid	Isobehenic acid
147	22:2 w6c	(13Z,16Z)-13,16-Docosadienoic acid	Docosadienoic acid
148	22:1 w9c	(13Z)-13-Docosenoic acid	Erucic acid
149	22:1 w8c	(14Z)-14-Docosenoic acid	---
150	22:1 w6c	(16Z)-16-Docosenoic acid	---
151	22:1 w5c	(17Z)-17-Docosenoic acid	---
152	22:1 w3c	(19Z)-19-Docosenoic acid	---
153	22:0 cyclo w6c	cis-15,16-Methylene-Heneicosanoic acid	---
154	22:0	Docosanoic acid	Behenic acid
0	Phthalate 2	---	---
155	22:0 10-methyl	10-Methyldocosanoic acid	---
156	23:4 w6c	(8Z,11Z,14Z,17Z)-8,11,14,17-Tricosatetraenoic acid	---
157	23:3 w6c	(11Z,14Z,17Z)-11,14,17-Tricosatrienoic acid	---
158	23:3 w3c	(13Z,16Z,19Z)-13,16,19-Tricosatrienoic acid	---
159	23:1 w5c	(18Z)-18-Tricosenoic acid	---
160	23:1 w4c	(19Z)-19-Tricosenoic acid	---
161	23:0	Tricosanoic acid	Tricosylic acid

162	24:4 w6c	(2Z,4Z,6Z,8Z)-2,4,6,8-Tetracosatetraenoic acid	Tetracosatetraenoic acid
163	24:3 w6c	(12Z,15Z,18Z)-12,15,18-Tetracosatrienoic acid	---
164	24:3 w3c	(15Z,18Z,21Z)-15,18,21- Tetracosatrienoic acid	---
165	24:1 w9c	(15Z)-15-Tetracosenoic acid	Nervonic acid
166	24:1 w7c	(17Z)-17-Tetracosenoic acid	---
167	24:1 w3c	(21Z)-21-Tetracosenoic acid	---
168	24:0	Tetracosanoic acid	Lignoceric acid

*** New Peaks in PLFAD1 v.1.30**