Supplementary Materials

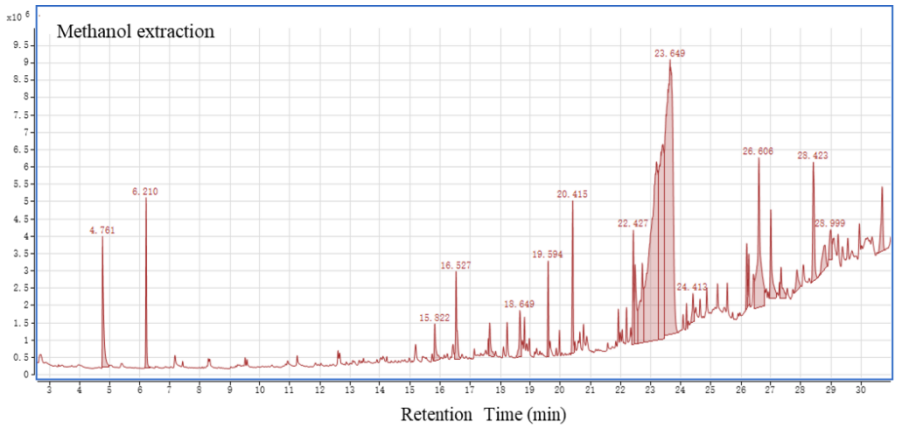


Figure S1. Total ion chromatograms of *Platanus orientalis* Linn bark (extracted by methanol).

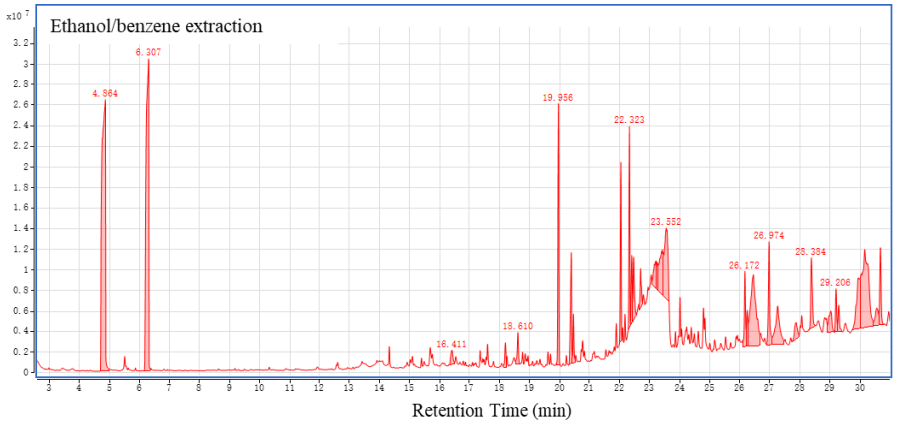


Figure S2. Total ion chromatograms of *Platanus orientalis* Linn bark (extracted by ethanol/benzene, 1:1).

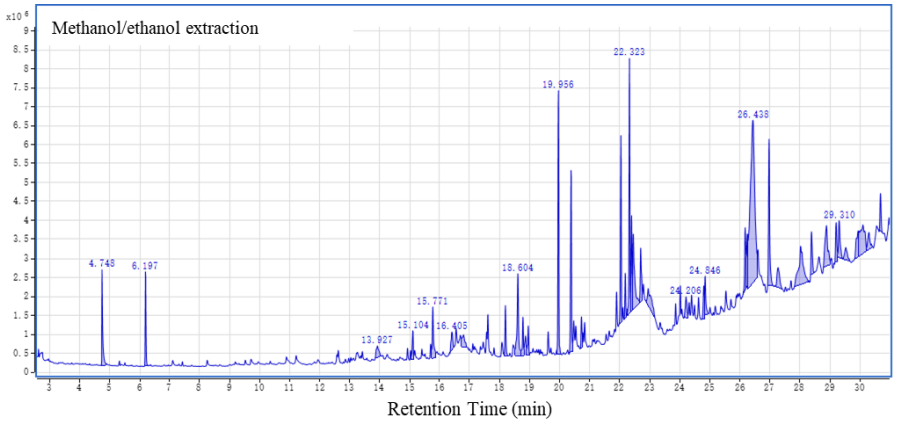


Figure S3. Total ion chromatograms of *Platanus orientalis* Linn bark which was extracted by methanol/ethanol (1:1).

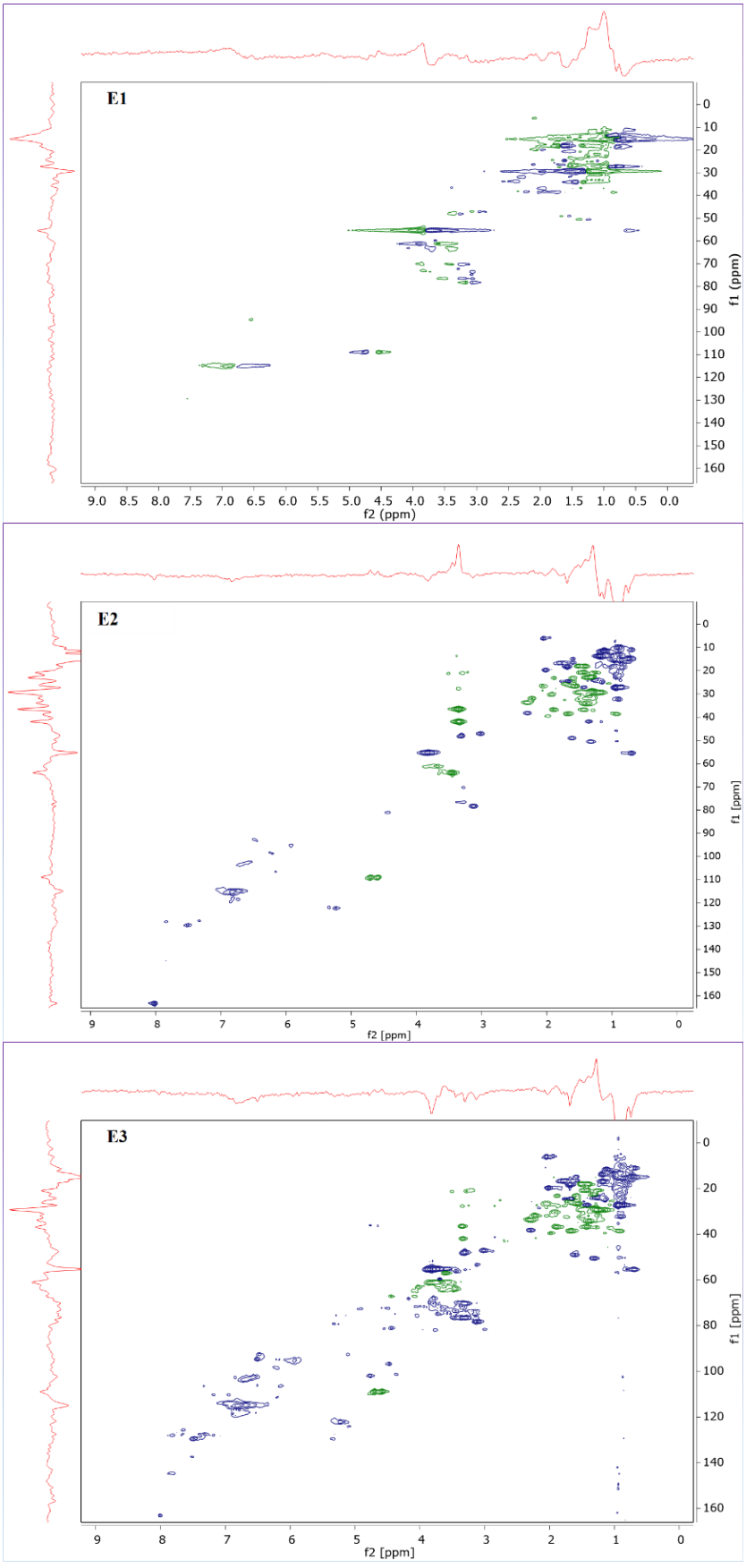


Figure S4. 2D-HSQC NMR spectra of the extract of *Platanus orientalis Linn* bark by different solvent: methanol (**E1**), ethanol/benzene (**E2**), methanol/ethanol (**E3**).

Table S1. TOF-LC-MS analysis of the extractives of POL bark by methanol/ethanol.

No.	Retention Time (min)	Mass	Peak Area (%)	Compounds
1	0.5	117.08	1.831	Betaine
2	0.5	135.05	0.219	Adenine
3	0.5	126.03	0.057	5-Methoxyfuraldehyde
4	0.5	143.09	0.438	Erycibelline
5	0.5	159.09	0.043	Betonicine
6	0.6	195.09	0.060	Damascenine
7	0.6	267.10	0.089	Adenosine
8	0.6	162.12	0.068	(+/-)-Anabasine
9	0.6	423.17	0.052	Neolinustatin
10	0.6	169.07	1.054	Noradrenaline
11	0.6	141.12	0.129	Isopelletierine
12	0.6	133.05	0.126	Mandelonitrile
13	0.6	151.06	0.635	Methylanthranilate
14	0.7	196.07	0.050	Cantharidin
15	0.7	208.07	0.050	3,4-Dioxymethylene-5-methoxy-1-(1-oxopropyl)benzene
16	0.7	190.11	0.041	Cytisine
17	0.7	226.08	0.069	Dunnisinin
18	0.7	423.17	0.063	Neolinustatin
19	0.7	121.09	0.081	Phenethylamine
20	0.7	155.13	0.082	Methyl isopelletierine
21	0.8	159.07	0.991	Echinopsine
22	0.8	202.11	0.082	Shihunidine
23	0.8	204.13	1.471	N,N-Dimethyltryptamine N-oxide
24	0.8	218.14	0.469	Bufotenidine
25	0.8	264.15	0.121	Subaphyllin
26	0.9	202.11	0.115	Shihunidine
27	0.9	170.06	0.072	Dictafolin B
28	0.9	149.05	0.073	Gentianadine
29	0.9	166.06	0.140	2,4-Dimethoxybenzaldehyde
30	1	382.09	0.568	Cibarian
31	1	198.05	0.094	alpha-Hydroxyhydrocaffeic acid
32	1.1	234.14	0.389	5-Methoxy-N,N-dimethyl-tryptamine Nb-oxide
33	1.2	159.07	0.045	Echinopsine
34	1.2	218.14	0.262	Bufotenidine
35	1.3	382.09	0.364	Cibarian
36	1.3	578.14	0.193	Procyanidin C
37	1.4	196.07	0.088	Cantharidin
38	1.4	212.07	0.129	Antiarolaldehyde
39	1.4	208.04	0.107	Fraxetin
40	1.4	224.07	0.118	Elenolide
41	1.4	216.13	0.060	2-Methyl-6-methoxy-1,2,3,4-tetrahydro-beta-carboline
42	1.4	264.14	0.061	Ludovicin A
43	1.4	391.15	0.131	Proacaciberin
44	1.4	448.06	0.136	Ducheside A
45	1.4	166.06	0.089	2,4-Dimethoxybenzaldehyde
46	1.4	184.07	0.420	Aucubigenin
47	1.5	202.11	0.049	Shihunidine
48	1.5	480.16	0.042	Blestriarene B
49	1.8	246.14	0.062	Hypaphorine
50	1.8	290.08	0.436	Epicatechin
51	1.9	396.14	0.053	N6-[beta-(Acetylcarbamoyloxy)ethyl] adenosine
52	1.9	166.06	0.049	2,4-Dimethoxybenzaldehyde
53	2	566.20	0.054	(5S,6R,7R,8S)-2-(2-Phenylethyl)-5,6,7-tri-hydroxy-5,6,7,8-tetra hydro-8-[2-(2-phenylethyl)chromonyl-6
54	2.3	232.12	0.482	(+)-Nb-Methyl tryptophan methyl ester (S)
55	2.3	578.14	0.052	Procyanidin C

56	2.4	208.04	0.145	Fraxetin
57	2.4	218.14	2.674	Bufotenidine
58	2.5	173.08	1.734	4-Methoxyl-1-methyl-2-quinolone
59	2.5	200.13	0.773	Nb-Methyltetrahydroharman
60	2.8	226.08	0.230	Dunnisinin
61	2.8	290.08	0.142	Epicatechin
62	2.8	162.03	0.054	4-Hydroxycoumarin
63	2.9	222.05	0.092	5,6-Dimethoxy-7-hydroxycoumarin
64	2.9	136.05	0.064	Benzyl formate
65	3	196.11	0.058	Loliolide
66	3	216.13	0.644	2-Methyl-6-methoxy-1,2,3,4-tetrahydro-beta-carboline
67	3.1	208.04	0.064	Fraxetin
68	3.1	173.08	0.175	4-Methoxyl-1-methyl-2-quinolone
69	3.1	234.14	0.091	5-Methoxy-N,N-dimethyl-tryptamine Nb-oxide
70	3.2	216.13	0.166	2-Methyl-6-methoxy-1,2,3,4-tetrahydro-beta-carboline
71	3.2	246.14	0.216	Hypaphorine
72	3.2	366.16	0.070	Picralinal
73	3.2	468.16	0.099	6-O-p-Hydroxybenzoyl ajugol
74	3.3	578.14	0.044	Procyanidin C
75	3.5	206.06	0.044	Isoeugenitol
76	3.5	366.16	0.087	Picralinal
77	3.6	194.09	0.088	Gynunol
78	3.6	212.10	0.243	Gardendiol
79	3.6	324.10	0.124	Portulaxanthin
80	3.6	262.17	0.044	(-)-9alpha-Hydroxylsophocarpine
81	3.6	594.26	0.083	5-Deacetyltaxachitriene B
82	3.6	166.06	0.057	2,4-Dimethoxybenzaldehyde
83	3.7	262.08	0.207	Celereoin
84	3.7	592.21	0.087	Jionoside C
85	3.8	180.08	0.058	5,6-Dimethyl-3a,4,7,7a-tetrahydro-1,3-lsoben-zofurandione
86	3.8	350.16	0.151	Isostrychnine N-oxide II
87	3.9	192.04	0.879	Daphnetin-8-methyl ether
88	3.9	192.15	0.045	alpha-Ionone
89	3.9	262.08	0.049	Celereoin
90	3.9	400.15	0.069	Dihydroanhydropodorhizol
91	4	232.11	0.062	Fraxinellone
92	4	262.12	0.142	Artemisin
93	4.1	216.13	0.307	2-Methyl-6-methoxy-1,2,3,4-tetrahydro-beta-carboline
94	4.1	248.10	0.177	Prenyl caffeate
95	4.1	490.29	0.068	Methl butyric acid tussilagin ester
96	4.1	606.23	0.045	Bruceantinol
97	4.2	222.05	0.804	5,6-Dimethoxy-7-hydroxycoumarin
98	4.2	218.09	0.043	2,2-Dimethyl-2H-1-benzopyran-6-carboxylic acid methyl ester
99	4.2	208.15	0.114	Theaspirone
100	4.2	248.10	0.361	Prenyl caffeate
101	4.2	350.16	0.099	Isostrychnine N-oxide II
102	4.2	592.21	0.122	Jionoside C
103	4.2	152.08	0.044	3,5-Dimethoxytoluene
104	4.3	330.15	0.052	o-Isovalerylcolum bianetin
105	4.5	178.10	0.045	Eugenol methyl ether
106	4.5	196.11	0.311	Loliolide
107	4.5	262.08	0.048	Celereoin
108	4.6	222.05	0.070	5,6-Dimethoxy-7-hydroxycoumarin
109	4.6	260.07	0.122	Clausenin
110	4.6	342.07	0.068	Sagittin
111	4.7	534.21	0.093	Arctiin
112	4.7	534.21	0.080	Arctiin
113	4.8	262.08	0.063	Celereoin

114	4.8	270.05	0.085	Lucidin
115	5	210.09	0.045	Desapidinol
116	5	244.07	0.165	Eleutherol
117	5	262.08	0.254	Celereoin
118	5	462.12	0.056	Azalein
119	5	444.20	0.050	Patriscabratine
120	5.2	302.04	0.041	6-Hydroxyluteolin
121	5.2	354.11	0.043	Glycyrrhisoflavone
122	5.3	434.16	0.042	Ciwujiatone
123	5.4	248.10	0.231	Prenyl caffeate
124	5.4	434.16	0.074	Ciwujiatone
125	5.4	442.16	0.208	Mallotochromene
126	5.5	254.06	0.289	Alizarin-1-methylether
127	5.5	354.11	0.101	Glycyrrhisoflavone
128	5.5	356.13	0.064	5,4'-Dihydroxy-[2''-(1-hydroxy-1-methylethyl)dihydrofurano]-(7,8:5'',4'')flavanone
129	5.5	436.18	0.078	8-O-Angeloyl-9-O-acetylanthemolide B
130	5.6	228.04	0.046	2'-Acetylangelicin
131	5.6	386.10	0.052	Cleomiscosin A
132	5.6	360.16	0.062	3-(alpha,4-Dihydroxy-3-methoxybenzyl)-4-(hydroxy-3-methoxybenzyl) tetrahydrofuran
133	5.7	330.15	0.058	o-Isovalerylcolum bianetin
134	5.7	418.16	0.042	Euparotin acetate
135	5.8	284.07	0.111	Physcion
136	5.8	386.10	0.045	Cleomiscosin A
137	5.8	396.12	3.089	beta-Apopicropodophyllin
138	5.9	228.08	0.146	5,6-Dehydrokawain
139	5.9	246.09	0.565	Marmesin
140	5.9	308.10	0.052	2-(3,4-Methylenedioxyphenyl)-3-methyl-5-(2-oxopropyl)benzofuran
141	5.9	326.12	0.045	2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan
142	5.9	382.14	0.109	Glycyrin
143	5.9	668.24	0.085	Triptofordin F2
144	6	208.15	0.053	Theaspirone
145	6	244.07	0.220	Eleutherol
146	6	246.09	0.063	Marmesin
147	6	281.07	0.078	Avenalumin I
148	6	396.12	0.047	beta-Apopicropodophyllin
149	6.1	246.09	0.108	Marmesin
150	6.1	326.12	0.060	2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan
151	6.2	286.05	0.101	Aureusidin
152	6.2	396.12	1.397	beta-Apopicropodophyllin
153	6.2	516.16	0.083	5alpha,6beta,7be8alpha-Tetraacetoxy-2-[2-(4-methoxyphenyl)ethyl]-5,6,7,8-tetrahydro-chromone (AH1a)
154	6.2	480.18	0.054	Picrasidine H
155	6.3	246.09	0.099	Marmesin
156	6.3	307.21	0.080	Dihydrocapsacine
157	6.3	380.13	8.138	Howiinol A
158	6.4	176.05	0.092	alpha-Hydrojuglone
159	6.4	273.21	0.058	(2E,4E,8E,10E,12E)-N-Isobutyl-2,4,8,10,12-tetradecapentaenamide
160	6.4	308.11	0.046	2-(3,4-Methylenedioxyphenyl)-3-methyl-5-(2-oxopropyl)benzofuran
161	6.4	326.12	0.041	2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan
162	6.4	416.11	0.128	Chrysophanol-8-O-beta-D-glucopyranoside
163	6.4	400.15	0.052	Dihydroanhydropodorhizol
164	6.5	338.12	0.382	Eurycarpin A
165	6.5	354.11	0.111	Glycyrrhisoflavone
166	6.5	386.10	0.041	Cleomiscosin A

167	6.5	410.14	0.511	Lactucopicrin
168	6.5	480.18	0.053	Picrasidine H
169	6.6	380.13	0.055	Howiinol A
170	6.6	438.17	0.061	Kraussianone 3
171	6.6	680.21	0.047	Gnemonol K
172	6.7	370.11	0.305	Neo-sesamin
173	6.9	338.11	0.046	Eurycarpin A
174	6.9	400.12	0.102	Coniselin
175	6.9	402.13	0.143	(3'R,4'R)-3'-Epoxyangeloyloxy-4'-acetoxy-3',4'-dihydroseselin
176	6.9	410.14	0.219	Lactucopicrin
177	6.9	566.19	0.053	(5S,6R,7R,8S)-2-(2-Phenylethyl)-5,6,7-tri-hydroxy-5,6,7,8-tetra hydro-8-[2-(2-phenylethyl)chromonyl-6
178	7	160.05	0.049	1,2-Hydronaphthoquinone
179	7	338.12	0.215	Eurycarpin A
180	7.1	244.07	0.113	Eleutherol
181	7.1	270.05	0.114	Lucidin
182	7.1	436.15	0.057	Kraussianone 5
183	7.2	314.08	0.070	7-Methoxy-aromadendrin
184	7.2	340.13	0.061	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
185	7.2	438.17	0.052	Kraussianone 3
186	7.3	300.06	0.164	Knoxiadin
187	7.3	330.07	0.078	Eupalitin
188	7.3	338.12	0.119	Eurycarpin A
189	7.3	384.12	0.065	Gancaonin D
190	7.3	410.10	0.053	Dehydropodophyllotoxin
191	7.4	300.06	0.136	Knoxiadin
192	7.4	370.11	0.049	Neo-sesamin
193	7.4	436.15	0.293	Kraussianone 5
194	7.5	226.16	0.090	Annuionone E
195	7.5	436.15	0.066	Kraussianone 5
196	7.6	266.06	0.138	Methoxybrassinin
197	7.6	244.07	0.460	Eleutherol
198	7.6	370.11	0.110	Neo-sesamin
199	7.6	396.12	0.143	beta-Apopicropodophyllin
200	7.6	438.17	0.050	Kraussianone 3
201	7.7	284.07	0.247	Physcion
202	7.7	338.11	0.041	Eurycarpin A
203	7.7	370.11	0.320	Neo-sesamin
204	7.7	356.13	0.049	5,4'-Dihydroxy-[2''-(1-hydroxy-1-methylethyl)dihydrofurano] -(7,8:5'',4'')flavanone
205	7.7	372.12	0.041	5,7,2',4',6'-Pentamethoxyflavone
206	7.7	384.12	0.719	Gancaonin D
207	7.8	372.12	0.228	5,7,2',4',6'-Pentamethoxyflavone
208	7.8	436.15	0.064	Kraussianone 5
209	7.9	354.11	0.200	Glycyrrhisoflavone
210	7.9	340.13	0.058	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
211	7.9	372.12	0.120	5,7,2',4',6'-Pentamethoxyflavone
212	7.9	386.14	0.146	Edultin
213	7.9	394.10	0.061	Chinensinaphthol methyl ether
214	8	370.11	0.063	Neo-sesamin
215	8.1	296.07	0.606	5-Methoxy-6,7-methylenedioxyflavone
216	8.1	340.13	0.047	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
217	8.1	398.14	0.101	Artoindonesianin R
218	8.1	422.17	0.304	Eryvarin F
219	8.2	191.13	0.082	2,3,4-Trimethyl-5-phenyloxazolidine
220	8.2	326.08	0.059	Jacareubin
221	8.2	354.11	0.397	Glycyrrhisoflavone
222	8.3	284.07	0.759	Physcion
223	8.3	396.12	0.076	beta-Apopicropodophyllin

224	8.4	354.11	0.281	Glycyrrhisoflavone
225	8.4	340.13	0.190	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
226	8.4	384.12	0.111	Gancaonin D
227	8.4	362.12	0.320	Chamanetin
228	8.4	438.17	0.103	Kraussianone 3
229	8.6	192.15	0.324	alpha-Ionone
230	8.6	258.09	0.085	Thespesone
231	8.6	354.11	0.100	Glycyrrhisoflavone
232	8.6	301.24	0.189	(E,E,E)-N-(2-Methylpropyl)-hexadeca-2,6,8-trien-10-ynamide
233	8.6	382.10	0.051	Artoindonesianin T
234	8.6	384.12	0.994	Gancaonin D
235	8.6	384.12	0.282	Gancaonin D
236	8.7	182.17	0.047	Cyclododecanone
237	8.7	298.08	0.118	Desmosflavone
238	8.7	322.12	0.297	Erypoegin E
239	8.7	356.13	0.061	5,4'-Dihydroxy-[2''-(1-hydroxy-1-methylethyl)dihydrofurano]-(7,8:5'',4'')flavanone
240	8.7	82.08	0.055	Methylene cyclopentane
241	8.8	354.11	0.238	Glycyrrhisoflavone
242	8.8	380.13	0.046	Howiinol A
243	8.8	420.16	0.043	Kraussianone 2
244	8.9	396.12	0.109	beta-Apopicropodophyllin
245	8.9	382.14	0.052	Glycyrin
246	8.9	424.19	0.115	Glisoflavanone
247	9	340.13	0.085	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
248	9	368.13	0.390	Curcumin
249	9.1	398.10	0.058	Glutinoside
250	9.1	354.11	0.402	Glycyrrhisoflavone
251	9.1	386.14	0.198	Edultin
252	9.1	380.13	0.631	Howiinol A
253	9.1	398.14	0.080	Artoindonesianin R
254	9.2	326.12	0.050	2,5-Dimethoxy-4-hydroxy-[2'',3'':7,8]-furanoflavan
255	9.2	328.13	0.051	Deltoin
256	9.2	352.10	0.285	Erosone
257	9.2	322.12	1.318	Erypoegin E
258	9.2	420.16	1.149	Kraussianone 2
259	9.3	268.07	0.046	Isodalbergin
260	9.3	324.14	0.961	Bavachin
261	9.3	350.12	0.888	3',4'-Methylenedioxy-7-hydroxy-6-isopentenyl flavone
262	9.3	410.14	0.065	Lactucopicrin
263	9.4	312.06	0.138	3,4-Dimethylenedioxypterocarpan
264	9.4	410.14	0.090	Lactucopicrin
265	9.5	258.09	0.102	Thespesone
266	9.5	328.13	0.156	Deltoin
267	9.5	368.13	1.169	Curcumin
268	9.5	354.15	0.042	Cristacarpin
269	9.5	380.13	0.480	Howiinol A
270	9.5	438.17	0.045	Kraussianone 3
271	9.6	176.05	0.140	alpha-Hydrojuglone
272	9.6	228.08	0.050	5,6-Dehydrokawain
273	9.6	315.26	0.259	Holadysine
274	9.6	422.17	0.045	Eryvarin F
275	9.6	148.02	0.323	Phthalic anhydride
276	9.7	366.11	0.115	Glycyrol
277	9.7	352.13	0.068	Anhydronotoptoloxide
278	9.7	354.15	0.181	Cristacarpin
279	9.7	410.14	0.043	Lactucopicrin
280	9.7	436.15	0.081	Kraussianone 5
281	9.7	422.17	0.048	Eryvarin F

282	9.7	425.29	0.162	Brachystamide D
283	9.8	230.09	0.249	7-Demethylsuberosin
284	9.8	340.13	0.041	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
285	9.8	368.13	0.825	Curcumin
286	9.8	380.13	0.393	Howiinol A
287	9.9	312.14	0.410	Miltionone I
288	9.9	382.11	0.055	Artoindonesianin T
289	9.9	370.14	0.062	beta,beta-Dimethylacrylshikonin
290	9.9	362.12	0.153	Chamanetin
291	9.9	380.13	1.516	Howiinol A
292	10	228.08	0.550	5,6-Dehydrokawain
293	10	314.15	0.486	Centaur X
294	10	338.12	2.193	Eurycarpin A
295	10	340.13	0.186	6,7-Dimethoxy-2-[2-(4'-methoxyphenyl)ethyl]chromone
296	10	386.14	0.127	Edultin
297	10.1	366.11	0.137	Glycyrol
298	10.2	320.10	0.153	Corylin
299	10.2	354.11	0.160	Glycyrrhisoflavone
300	10.2	356.13	0.105	5,4'-Dihydroxy-[2''-(1-hydroxy-1-methylethyl) dihydrofurano]-(7,8:5'',4'')flavanone
301	10.2	496.17	0.046	Capparilosid B
302	10.3	298.08	0.049	Desmosflavone
303	10.3	312.14	0.050	Miltionone I
304	10.3	368.13	0.275	Curcumin
305	10.4	300.10	0.085	2-Carboxymethyl-3-phenyl-2,3-epoxy-1,4-naphthoquinone
306	10.4	410.14	0.044	Lactucopicrin
307	10.5	370.14	0.101	beta,beta-Dimethylacrylshikonin
308	10.5	418.14	0.041	Cyclomulberrochromene
309	10.6	438.17	0.045	Kraussianone 3
310	10.6	408.19	0.047	Euchrenone a16
311	10.7	370.14	0.061	beta,beta-Dimethylacrylshikonin
312	10.7	420.16	0.056	Kraussianone 2
313	10.8	338.12	1.648	Eurycarpin A
314	10.8	384.12	0.054	Gancaonin D
315	10.8	354.15	0.062	Cristacarpin
316	10.8	370.14	0.107	beta,beta-Dimethylacrylshikonin
317	10.8	408.19	0.042	Euchrenone a16
318	10.9	414.20	0.109	Armillaripin
319	10.9	424.19	0.155	Glisoflavanone
320	11	322.12	0.066	Erypoegin E
321	11	324.14	0.356	Bavachin
322	11	406.18	0.072	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
323	11.1	370.14	0.156	beta,beta-Dimethylacrylshikonin
324	11.1	406.18	0.086	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
325	11.1	422.17	0.148	Eryvarin F
326	11.3	352.13	0.298	Anhydronotoptoloxide
327	11.3	408.19	0.062	Euchrenone a16
328	11.4	314.11	0.044	4,7-Dihydroxy-5-methoxyl-6-methyl-8-formyl-flavan
329	11.4	370.14	0.041	beta,beta-Dimethylacrylshikonin
330	11.5	408.19	0.081	Euchrenone a16
331	11.6	338.12	0.057	Eurycarpin A
332	11.6	384.12	0.053	Gancaonin D
333	11.6	406.18	0.049	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
334	11.6	422.17	0.068	Eryvarin F
335	11.6	408.19	0.048	Euchrenone a16
336	11.6	440.18	0.105	Kushenol L

337	11.8	196.11	0.074	Loliolide
338	11.8	282.09	0.050	5,8-Dihydroxy-2-(2-phenylethyl) chromone
339	11.8	352.13	2.426	Anhydronotoptoloxide
340	11.8	338.15	1.171	Erypoegin A
341	11.9	312.14	0.092	Miltionone I
342	11.9	352.26	0.066	10-Gingediol
343	11.9	408.19	0.173	Euchrenone a16
344	11.9	440.33	0.251	Pfaffic acid
345	11.9	458.34	0.063	24-Hydroxy-11-deoxyglycyrrhetic acid
346	12	336.10	0.306	Isopsoralidin
347	12.1	420.16	0.105	Kraussianone 2
348	12.2	276.21	0.108	Clupanodonic acid
349	12.2	336.10	0.292	Isopsoralidin
350	12.2	408.19	0.044	Euchrenone a16
351	12.3	368.16	0.046	Spherosinin
352	12.3	402.15	0.047	Inophyllolide
353	12.5	392.13	0.046	Dehydrodeguelin
354	12.6	334.12	0.047	Alangimarine
355	12.6	312.14	0.070	Miltionone I
356	12.7	354.15	0.530	Cristacarpin
357	12.7	422.17	0.182	Eryvarin F
358	12.7	392.20	1.035	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(4-hydroxy-3-[3-methyl-2-butenyl)phenyl]-2-prop
359	12.8	350.12	0.929	3',4'-Methylenedioxy-7-hydroxy-6-isopentenyl flavone
360	12.9	296.14	0.125	Isocryptotanshinone
361	13	234.16	0.069	alpha-Rotunol
362	13	298.16	0.062	Glepidotin C
363	13	322.12	0.044	Erypoegin E
364	13	350.11	0.070	3',4'-Methylenedioxy-7-hydroxy-6-isopentenyl flavone
365	13.1	362.12	0.206	Chamanetin
366	13.1	438.17	0.054	Kraussianone 3
367	13.1	422.21	0.043	(5Ar,6R,9R,9Ar)-4-Cinnamoyl-3,6- dihydroxy-1-methoxy-6-methyl-9-(1-methylethyl)-5a,6,7,8,9a-hexahydro
368	13.2	406.18	0.122	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
369	13.4	382.10	0.304	Artoindonesianin T
370	13.4	438.17	1.113	Kraussianone 3
371	13.5	362.12	0.210	Chamanetin
372	13.6	336.14	0.068	Danshenol A
373	13.8	616.38	0.042	Calebassine
374	13.9	406.18	0.114	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
375	13.9	396.30	0.065	25D-Spirosta-3,5-diene
376	14	176.05	0.050	alpha-Hydrojuglone
377	14	406.18	0.167	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
378	14	408.19	0.045	Euchrenone a16
379	14	454.34	0.059	Ebelin lactone
380	14	630.39	0.442	Macrophyllic acid
381	14.1	148.02	1.264	Phthalic anhydride
382	14.2	204.08	0.099	7-Hydroxy-3-butylidene-phthalide
383	14.2	278.15	0.330	Ditertbutyl phthalate
384	14.2	390.18	0.079	Hispaglabridin B
385	14.3	296.14	0.185	Isocryptotanshinone
386	14.3	452.18	0.047	Methyl kushenol C
387	14.4	324.14	0.044	Bavachin
388	14.5	366.11	0.058	Glycyrol
389	14.5	422.17	0.162	Eryvarin F
390	14.6	352.13	0.057	Anhydronotoptoloxide

391	14.7	390.18	0.913	Hispaglabridin B
392	14.8	452.18	0.095	Methyl kushenol C
393	15.7	328.15	0.100	Rhododendrin
394	15.7	424.21	2.219	Didrovaltratum
395	15.7	440.18	0.226	Kushenol L
396	15.7	826.43	0.065	Dianoside C
397	15.9	406.18	0.078	(E)-1-[2,4-Dihydroxy-3-(3-methyl-2-butenyl)phenyl]-3-(2,2-dimethyl-8-hydroxy-2H-benzopyran-6-yl)-2-p
398	16.1	404.16	0.245	Mammeigin
399	16.4	148.04	0.144	Allyl propyl disulfide
400	17.7	514.37	0.159	Alisol B monoacetate
401	18	208.15	0.042	Theaspirone
402	18.9	484.35	0.074	Methyl(24Z)-27-hydroxy-3-oxo-7,24-titucalla-dienoate
403	20	390.28	0.420	Diisocapryl phthalate
404	27.1	261.17	0.051	Acrifoline
405	27.1	131.09	0.110	Alloisoleucine
406	27.1	121.09	0.182	Phenethylamine
407	27.2	177.12	0.051	3,4-Dimethyl-5-phenyloxazolidine
408	27.2	273.21	0.047	(2E,4E,8E,10E,12E)-N-Isobutyl-2,4,8,10,12-tetradecapentaenamide
409	27.3	301.24	0.062	(E,E,E)-N-(2-Methylpropyl)-hexadeca-2,6,8-trien-10-ynamide

Table S2. Py-GC-MS analysis of POL-B.

No.	Retention Time (min)	Peak area (%)	Component
1	5.63	85.5172	Sarcosine
2	5.77	2.6056	2-Butene
3	5.91	1.2885	Acetaldehyde
4	6.03	0.0277	Cyclopropane, 1,1-dimethyl-
5	6.23	0.5450	Furan
6	6.5	2.4683	Acetone
7	6.83	0.1522	Furan, 2,3-dihydro-
8	7.02	0.4733	Furan, 2-methyl-
9	7.26	0.1690	4-Methyl-2-pentyne
10	7.46	1.4179	Acetic acid ethenyl ester
11	7.64	0.0521	2-Hexene, 5-methyl-, (E)-
12	7.74	0.0121	2-Hexen-1-ol, (Z)-
13	7.92	0.0835	Benzene
14	8.05	0.0066	Oxalic acid
15	8.13	0.0003	Oxalic acid
16	8.38	0.1818	Furan, 2,5-dimethyl-
17	8.68	0.2627	(E)-2-Butenal
17	8.56	1.8081	Acetic acid
18	8.84	0.0096	Butanal, 3-hydroxy-
19	8.94	0.0479	2-Pentanone
20	9.14	0.1068	2,3-Pentanedione
21	9.34	0.0329	Hydroperoxide, heptyl
22	9.44	0.0004	1-(5-Bicyclo[2.2.1]heptyl)ethylamine
23	9.54	0.0621	Ethyl-1-propenyl ether
24	9.84	0.2192	Toluene
25	10.03	0.0479	Cyclopropyl carbinol
26	10.24	0.0097	5-Cyclopropylcarbonyloxypentadecane
27	10.37	0.0439	3-Penten-2-one
28	10.51	0.0395	1-Propanol, 2-methyl-
29	10.71	0.0156	Tetraacetyl-d-xylonic nitrile
30	10.89	0.0385	Furan, 2-methyl-
31	11.17	0.0261	Paromomycin
32	11.42	0.0213	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester
33	11.66	0.1335	Cyclobutylamine

34	11.96	0.0517	p-Xylene
35	12.19	0.0096	R1-Barrigenol
36	12.23	0.0006	R1-Barrigenol
37	12.37	0.0466	Furfural
38	12.51	0.1144	Acetic anhydride
39	12.63	0.0381	Tetraacetyl-d-xylonic nitrile
40	12.91	0.4064	Furfural
41	13.16	0.0084	R1-Barrigenol
42	13.25	0.0003	R1-Barrigenol
43	13.36	0.0192	9-Octadecen-12-ynoic acid, methyl ester
44	13.49	0.0003	R1-Barrigenol
45	13.64	0.0723	Cyclobutylamine
46	13.83	0.0432	2-Cyclopenten-1-one, 2-methyl-
47	14.04	0.0403	9-Octadecen-12-ynoic acid, methyl ester
48	14.16	0.0107	9-Octadecen-12-ynoic acid, methyl ester
49	14.29	0.0439	R1-Barrigenol
50	14.4	0.0006	R1-Barrigenol
51	14.54	0.1606	6-Oxabicyclo[3.1.0]hexan-2-one
52	14.84	0.0486	9-Octadecen-12-ynoic acid, methyl ester
53	15.06	0.0425	9-Octadecen-12-ynoic acid, methyl ester
54	15.18	0.0349	2(5H)-Furanone
55	15.25	0.0003	9-Octadecenoic acid (Z)-, hexyl ester
56	15.4	0.0776	trans-4-Hydroxy-L-proline
57	15.53	0.1489	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-
58	15.71	0.0571	Benzene, (2-propynyloxy)-
59	15.94	0.1708	Guaiacol
60	16.31	0.1041	R-Limonene
61	16.44	0.0368	9-Octadecen-12-ynoic acid, methyl ester
62	16.63	0.2289	2-Methoxy-4-methylphenol
63	16.79	0.0005	9-Octadecen-12-ynoic acid, methyl ester
64	16.82	0.0034	9-Octadecen-12-ynoic acid, methyl ester
65	16.86	0.0037	9-Octadecen-12-ynoic acid, methyl ester
66	16.98	0.0475	Paromomycin

Table S3. Py-GC-MS analysis of POL-B-Co_3O_4.

No.	Retention Time (min)	Peak Area (%)	Component
1	5.61	80.4303	L-Alanine,L-alanyl-L-alanyl-
2	5.74	3.2108	2-Butene
3	5.89	0.9764	Acetaldehyde
4	6.00	0.0667	Cyclopropane, ethyl-
5	6.15	0.4148	1,3-Pentadiene, (Z)-
6	6.21	0.4003	Furan
7	6.47	2.8804	Acetone
8	6.66	0.0120	Butane, 2,3-dimethyl-2-nitro-
9	6.81	0.1745	Cyclopropanecarboxaldehyde
10	7.01	0.5285	Furan, 3-methyl-
11	7.18	0.0759	Cyclopentaneacetic acid, 2-(hydroxymethyl)-3-methyl-, ?lactone
12	7.25	0.1207	Phenol, 2,6-dimethoxy-
13	7.44	1.4304	Guanidine
14	7.62	0.0812	3-Undecene, (E)-
15	7.72	0.0199	Spiro[2.2]pentane-1-carboxylic acid, 2-cyclopropyl-2-methyl-
16	7.91	0.1633	Benzene
17	8.02	0.0100	Benzeneethanamine, 2,5-difluoro-3,4-trihydroxy-N-methyl-
18	8.13	0.0016	Pterin-6-carboxylic acid
19	8.37	0.1664	Furan, 2,5-dimethyl-
20	8.53	1.8566	Acetic acid
21	8.66	0.2255	Methacrolein
22	8.83	0.0079	3,6-Octadecadiynoic acid, methyl ester

23	8.93	0.0238	9-Octadecen-12-ynoic acid, methyl ester
24	9.15	0.6166	Phenol, 2-methoxy-4-(1-propenyl)-
25	9.54	0.0838	Ethyl-1-propenyl ether
26	9.82	0.2847	Toluene
27	10.01	0.0206	9-Octadecen-12-ynoic acid, methyl ester
28	10.10	0.0010	Tetraacetyl-d-xylonic nitrile
29	10.21	0.0595	Cyclohexane, 2-butyl-1,1,3-trimethyl-
30	10.37	0.0797	3-Penten-2-one
31	10.52	0.1003	Propanoic acid, 3-(acetylthio)-2-methyl-
32	10.69	0.0527	Bicyclo[2.2.1]heptan-2-one, 4,7,7-trimethyl-, semicarbazone
33	10.99	0.4448	3-tert-Butyl-4-hydroxyanisole
34	11.16	0.3820	3-tert-Butyl-4-hydroxyanisole
35	11.65	0.0853	1-Tetrazol-2-ylethanone
36	11.82	0.0405	Formula C16H20O4, MW 276, CAS# 19892-19-4, Entry# 10197
37	11.97	0.1449	p-Xylene
38	12.16	0.0094	9-Octadecen-12-ynoic acid, methyl ester
39	12.28	0.0009	Tertbutyloxyformamide, N-methyl-N-[4-(1-pyrrolidinyl)-2-butynyl]-
40	12.37	0.0276	undefined
41	12.51	0.0718	Acetic anhydride
42	12.68	0.3534	(E)-2,6-Dimethoxy-4-(prop-1-en-1-yl)phenol
43	12.91	0.4425	Furfural
44	13.15	0.0649	Benzaldehyde, 4-hydroxy-3,5-dimethoxy-
45	13.34	0.0329	9-Octadecen-12-ynoic acid, methyl ester
46	13.49	0.0009	Ethyl iso-allocholate
47	13.63	0.0644	9-Octadecen-12-ynoic acid, methyl ester
48	13.83	0.0314	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
49	14.08	0.0894	Phorbol 12,20-diacetate
50	14.29	0.0438	9-Octadecen-12-ynoic acid, methyl ester
51	14.40	0.0019	9-Octadecen-12-ynoic acid, methyl ester
52	14.44	0.0008	1-Oxaspiro[4.5]decane-3-carboxylic acid, 4-cyano-2-
53	14.55	0.0638	N-[4-(4-Chlorophenyl)isothiazol-5-yl)-1-methylpiperidin-2-imine
54	14.67	0.0276	9,10-Secocholesta-5,7,10(19)-triene-3,24,25-triol, (3β,5Z,7E)-
55	14.86	0.0626	Phorbol 12,20-diacetate
56	15.10	0.1075	4,5α-Epoxymorphinan-3,14-diol
57	15.39	0.0530	2-Methyliminoperhydro-1,3-oxazine
58	15.55	0.0848	1,2-Cyclopentanedione, 3-methyl-
59	15.72	0.0527	Benzene, (2-propynyloxy)-
60	15.94	0.1172	Phenol, 2-methoxy-
61	16.34	0.0759	9-Octadecen-12-ynoic acid, methyl ester
62	16.46	0.0449	9-Octadecen-12-ynoic acid, methyl ester
63	16.62	0.1328	Creosol
64	16.84	0.0184	Ethyl iso-allocholate
65	16.95	0.0362	Tetraacetyl-d-xylonic nitrile
66	17.00	0.0217	Ethyl iso-allocholate
67	17.14	0.0659	Phenol, 4-ethyl-2-methoxy-
68	17.26	0.0271	9-Octadecen-12-ynoic acid, methyl ester
69	17.47	0.1403	2-Methoxy-4-vinylphenol
70	17.71	0.2273	Phenol, 2,6-dimethoxy-
71	17.89	0.0121	9-Octadecen-12-ynoic acid, methyl ester
72	17.95	0.0345	9-Octadecen-12-ynoic acid, methyl ester
73	18.05	0.0075	Phorbol
74	18.27	0.3035	Phenol, 2-methoxy-4-(1-propenyl)-
75	18.49	0.0221	2,4,5,6,7,7a-Hexahydro-3,6-dimethyl-α-methylene-2-
76	18.60	0.0072	Phorbol 12,20-diacetate
77	18.71	0.0225	2,4,5,6,7,7a-Hexahydro-3,6-dimethyl-α-methylene-2-

78	18.86	0.0020	Phorbol 12,20-diacetate
79	18.94	0.0137	1H-2,8a-Methanocyclopenta[a]cyclopropa[e]cyclodecen
80	19.14	0.2695	2-(3,4-Dimethoxyphenyl)-6-methyl-3,4-chromanediol
81	19.44	0.0451	2-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-
82	19.53	0.0017	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
83	19.55	0.0020	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
84	19.73	0.0342	1H-2,8a-Methanocyclopenta[a]cyclopropa[e]cyclodecen
85	19.79	0.0241	Phorbol
86	19.95-20.09	0.0060	2,4,5,6,7,7a-Hexahydro-3,6-dimethyl-α-methylene-2-
87	20.26	0.2018	(E)-2,6-Dimethoxy-4-(prop-1-en-1-yl)phenol
88	20.40	0.0840	Phenol, 2,6-dimethoxy-4-(2-propenyl)-
89	20.47	0.0476	Phenol, 2,6-dimethoxy-4-(2-propenyl)-
90	20.64	0.1740	Benzaldehyde, 4-hydroxy-3,5-dimethoxy-
91	20.92	0.0013	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
92	21.03	0.0092	Phorbol
93	21.13	0.0030	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
94	21.18	0.0016	Phorbol
95	21.32	0.0128	2,5-Cyclohexadien-1-one, 3,5-dihydroxy-4,4-dimethyl-2-valeryl-
96	21.36	0.0075	2,5-Cyclohexadien-1-one, 3,5-dihydroxy-4,4-dimethyl-2-valeryl-
97	21.41	0.0137	Cyclobarbital
98	21.51	0.0043	[1,1'-Bicyclopropyl]-2-octanoic acid, 2'-hexyl-, methyl ester
99	21.61	0.0052	Phorbol
100	21.80	0.0082	R1-Barrigenol
101	21.94	0.0209	Carteolol
102	22.08	0.0230	undefined
103	22.41	0.0028	Phorbol
104	22.61-24.35	0.0808	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
105	24.43	0.0045	R1-Barrigenol
106	24.48	0.0064	Dehydrocholic acid
107	24.58-24.63	0.0040	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
108	24.69	0.0021	R1-Barrigenol
109	24.72	0.0009	Phorbol
110	24.77	0.0014	Phorbol
111	24.80	0.0020	R1-Barrigenol
112	24.86	0.0012	R1-Barrigenol
113	25.08	0.0110	Ethyl iso-allocholate
114	25.27	0.0024	Formula C20H28O6, MW 364, CAS# 77590-91-1, Entry# 188584
115	25.34	0.0027	Phorbol
116	25.38	0.0032	[1,1'-Bicyclopropyl]-2-octanoic acid, 2'-hexyl-, methyl ester
117	25.49	0.0039	Phorbol
118	25.53	0.0033	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hy

			droxyme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3, 8-dione
119	25.58-25.88	0.0160	Phorbol
120	25.92-26.02	0.0073	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hy droxyme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3, 8-dione
121	26.11	0.0052	R1-Barrigenol
122	26.14-26.53	0.0129	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hy droxyme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3, 8-dione
123	26.80	0.0051	5,7,9(11)-Androstatriene, 3-hydroxy-17-oxo-
124	26.87	0.0023	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hy droxyme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3, 8-dione
125	26.90	0.0012	R1-Barrigenol

Table S4. Py-GC-MS analysis of POL-B-Fe_2O_3.

No.	Retention Time (min)	Peak Area (%)	Component
1	5.56	48.9973	L-Ala-L-Ala-L-Ala
2	5.61	25.7860	L-Ala-L-Ala-L-Ala
3	5.72	3.6189	2-Butene
4	5.87	1.9430	Acetaldehyde
5	5.97	0.1141	Cyclopropane, 1,1-dimethyl
6	6.12	0.2777	1,3-Pentadiene, (Z)
7	6.19	0.7997	Furan
8	6.45	4.0620	Acetone
9	6.64	0.0179	Butane, 2,3-dimethyl-2-nitro
10	6.8	0.2328	Furan, 2,3-dihydro
11	6.89	0.1515	Propanal, 2-methyl
12	6.98	0.6128	Furan, 2-methyl
13	7.21	0.2516	Cyclopropane, (1-methylethylidene)-
14	7.42	1.9733	Acetic acid ethenyl ester
15	7.6	0.0768	1-Hexene, 5-methyl
16	7.71	0.0199	2-Hexen-1-ol, (Z)-
17	7.9	0.1378	Benzene
18	8.01	0.0360	Succinic acid-2,2,3,3-d4
19	8.26	0.0718	Pentanal
20	8.35	0.1539	Furan, 2,5-dimethyl
21	8.54	3.7335	Acetic acid
22	8.66	0.4347	Methacrolein
23	8.81	0.0633	Butanal, 3-hydroxy
24	8.92	0.0886	5-Hexen-2-one
25	9.03	0.0543	2-Penten-1-ol, (E)
26	9.11	0.0918	2,3-Pentanedione
27	9.32	0.0364	Hydroperoxide, heptyl
28	9.52	0.0829	Ethyl-1-propenyl ether
29	9.81	0.3408	Toluene
30	10	0.0512	3,6-Octadecadiynoic acid, methyl ester
31	10.15	0.0005	Pyrazole[4,5-b]imidazole, 1-formyl-3-ethyl-6-d-ribofuranosyl
32	10.2	0.0083	9-Octadecen-12-ynoic acid, methyl ester
33	10.34	0.0452	3-Cyclopropylcarbonyloxytetradecane
34	10.49	0.0655	Tetraacetyl-d-xylonic nitrile
35	10.71	0.0275	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester
36	10.87	0.0540	Furan, 2-methyl

37	11.02	0.0019	Tetraacetyl-d-xylonic nitrile
38	11.14	0.0294	Tetraacetyl-d-xylonic nitrile
39	11.39	0.0283	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester
40	11.65	0.1697	Acetic anhydride
41	11.97	0.0685	o-Xylene
42	12.36	0.1038	Furfural
43	12.51	0.1724	Cyclobutylamine
44	12.62	0.0537	Succindialdehyde
45	12.91	0.4914	Furfural
46	13.13	0.0120	Tetraacetyl-d-xylonic nitrile
47	13.35	0.0229	R1-Barrigenol
48	13.63	0.0901	2-Propanone, 1-(acetyloxy)-
49	13.85	0.0447	R1-Barrigenol
50	13.94	0.0148	Phorbol
51	14.03	0.0566	R1-Barrigenol
52	14.2	0.0089	9-Octadecen-12-ynoic acid, methyl ester
53	14.29	0.0495	1-(4-Chlorophenyl)-5-[(2-piperidin-1-yl)vinyl]-1H-tetrazole
54	14.42	0.0007	R1-Barrigenol
55	14.54	0.1141	2-Cyclopenten-1-one, 2-hydroxy
56	14.67	0.0272	9-Octadecen-12-ynoic acid, methyl ester
57	14.85	0.0573	2-Furancarboxaldehyde, 5-methyl
58	15.06	0.0364	9-Octadecen-12-ynoic acid, methyl ester
59	15.17	0.0285	9-Octadecenoic acid (Z)-, hexyl ester
60	15.4	0.0989	trans-4-Hydroxy-L-proline
61	15.54	0.1227	2-Cyclopenten-1-one, 2-hydroxy-3-methyl
62	15.71	0.0629	9-Octadecen-12-ynoic acid, methyl ester
63	15.94	0.1688	Phenol, 2-methoxy
64	16.11	0.0043	Phorbol
65	16.32	0.0920	9-Octadecen-12-ynoic acid, methyl ester
66	16.47	0.0320	9-Octadecen-12-ynoic acid, methyl ester
67	16.63	0.1869	Creosol
68	16.98	0.0778	9-Octadecen-12-ynoic acid, methyl ester
69	17.14	0.0775	Aminocarb
70	17.27	0.0512	3-Cyclopropylcarbonyloxytridecane
71	17.47	0.2678	2-Methoxy-4-vinylphenol
72	17.72	0.5218	Phenol, 2,6-dimethoxy
73	18.27	0.4720	Phenol, 2-methoxy-4-(1-propenyl)
74	18.7-18.95	0.0627	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
75	19.13	0.3926	2',4'-Dimethoxyacetophenone
76	19.43	0.0246	4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol
77	19.83	0.0658	Phorbol
78	19.93	0.0103	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
79	20.61	0.0688	Benzaldehyde, 4-hydroxy-3,5-dimethoxy
80	20.65	0.0822	Benzaldehyde, 4-hydroxy-3,5-dimethoxy
81	20.9-21.2	0.0174	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
82	21.35	0.0467	3-(4-Methoxyphenyl)-2-(3,4,5-trimethoxyphenyl)prop-2-enenitrile
83	21.53	0.0033	N-[3,5-Dinitropyridin-2-yl]valine
84	21.63	0.0091	Phorbol
85	21.71	0.0130	17-Pentatriacontene
86	21.97	0.0094	1,2-Cycloheptanedione, 3,3,7,7-tetramethyl-, dihydrazone

87	22.09	0.0125	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
88	22.16	0.0392	4-Hydroxy-2-methoxycinnamaldehyde
89	22.44-22.96	0.0414	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
90	23.07	0.0154	Ethyl iso-allocholate
92	23.22	0.0019	1,4-Benzenediol, 2,6-bis(1,1-dimethylethyl)-
93	23.25-24.46	0.0862	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
94	24.56	0.0088	Phorbol
95	24.7	0.0045	R1-Barrigenol
96	24.82	0.0055	Androsterone acetate
97	25.05	0.0074	[1,1'-Bicyclopropyl]-2-octanoic acid, 2'-hexyl-, methyl ester
98	25.29-256.66	0.0641	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
99	26.73	0.0078	Vitexin
100	26.89	0.0118	Glycyl-L-histidyl-L-lysine acetate

Table S5. Py-GC-MS analysis of POL-B-Co_3O_4/Fe_2O_3.

No.	Retention Time (min)	Peak Area (%)	Component
1	5.62	78.2029	L-Ala-L-Ala-L-Ala
2	5.75	2.7140	2-Butene
3	5.9	1.2923	Acetaldehyde
4	6.01	0.0619	Cyclopropane, 1,1-dimethyl
5	6.22	1.0245	Furan
6	6.49	4.1237	Acetone
7	6.67	0.0127	Octodrine
8	6.82	0.2888	Furan, 2,3-dihydro
9	7	0.8703	Furan, 2-methyl
10	7.19	0.1197	3-Hexyne
11	7.24	0.1852	Cyclopropane, (1-methylethylidene)-
12	7.45	2.2952	2,3-Butanedione
13	7.62	0.1201	1-Hexene, 5-methyl
14	7.74	0.0162	2-Heptynoic acid
15	7.91	0.1834	Benzene
16	8.36	0.2882	Furan, 2,5-dimethyl
17	8.53	2.0066	Acetic acid
18	8.66	0.5224	Methacrolein
19	8.82	0.0139	Butanal, 3-hydroxy
20	8.94	0.0397	tert-Amyl alcohol
21	9.13	0.1695	2,3-Pentanedione
22	9.33	0.0630	1-Octene, 3,7-dimethyl
23	9.53	0.1066	Ethyl-1-propenyl ether
24	9.66	0.0006	Pyrazole[4,5-b]imidazole, 1-formyl-3-ethyl-6-?d-ribofuranosyl
25	9.83	0.3415	Toluene
26	10.02	0.0595	Tetraacetyl-d-xylonic nitrile
27	10.22	0.0149	3,7-Diacetamido-7H-s-triazolo[5,1-c]-s-triazole
28	10.35	0.0621	4-Cyclopropylcarbonyloxytridecane
29	10.49	0.0537	Methyl glyoxal
30	10.69	0.0173	Tetraacetyl-d-xylonic nitrile

31	10.73	0.0082	Tetraacetyl-d-xylonic nitrile
32	10.88	0.0621	Furan, 2-methyl
33	11.16	0.0394	Paromomycin
34	11.4	0.0400	9-Octadecen-12-ynoic acid, methyl ester
35	11.66	0.0683	1-Propanol, 2-methyl
36	11.76	0.0337	N,N'-Bis(Carbobenzyloxy)-lysine methyl(ester)
37	11.97	0.0761	o-Xylene
38	12.16	0.0102	Ethyl iso-allocholate
39	12.26	0.0013	R1-Barrigenol
40	12.37	0.0500	Furfural
41	12.51	0.1164	Acetic anhydride
42	12.65	0.0293	Tetraacetyl-d-xylonic nitrile
43	12.92	0.4899	Furfural
44	13.33	0.0215	9-Octadecen-12-ynoic acid, methyl ester
45	13.63	0.0621	4-Penten-2-one, 3-methyl
46	13.85	0.0255	R-Limonene
47	14	0.0275	Paromomycin
48	14.05	0.0193	Paromomycin
49	14.15	0.0076	Tetraacetyl-d-xylonic nitrile
50	14.29	0.0421	1-(4-Chlorophenyl)-5-[(2-piperidin-1-yl)vinyl]-1H-tetrazole
51	14.4	0.0009	9-Octadecen-12-ynoic acid, methyl ester
52	14.56	0.0677	6-Oxabicyclo[3.1.0]hexan-2-one
53	14.67	0.0498	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester
54	14.86	0.0461	9-Octadecen-12-ynoic acid, methyl ester
55	15.08	0.0126	9-Octadecen-12-ynoic acid, methyl ester
56	15.13	0.0065	9-Octadecen-12-ynoic acid, methyl ester
57	15.19	0.0177	N-[4-(4-Chlorophenyl)isothiazol-5-yl)-1-methylpiperidin-2-imine
58	15.41	0.0639	trans-4-Hydroxy-L-proline
59	15.57	0.1230	2-Heptene, 6-methyl
60	15.72	0.0633	Dimethylfraxetin
61	15.96	0.1685	Phenol, 2-methoxy
62	16.31	0.0828	Phenol, 3-methyl
63	16.46	0.0122	9-Octadecen-12-ynoic acid, methyl ester
64	16.54	0.0007	Octadecanal, 2-bromo
65	16.63	0.1873	Creosol
66	16.84	0.0194	9-Octadecen-12-ynoic acid, methyl ester
67	16.97	0.0377	9-Octadecen-12-ynoic acid, methyl ester
68	17.15	0.0744	Aminocarb
69	17.3	0.0351	Allyl methallyl ether
70	17.47	0.2726	2-Methoxy-4-vinylphenol Phenol, 4-ethenyl-2-methoxy
71	17.6	0.0110	Phenol,2-methoxy-3-(2-propenyl)-
72	17.71	0.4901	Phenol, 2,6-dimethoxy
73	18.06	0.0014	Phorbol
74	18.26	0.4897	Phenol,2-methoxy-4-(1-propenyl)-
75	18.61	0.0037	Phorbol 12,20-diacetate
76	18.73	0.0393	Phorbol 12,20-diacetate
77	18.94	0.0072	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
78	19.12	0.2837	Ethanone, 1-(3,4-dimethoxyphenyl)-
79	19.43	0.0303	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
80	19.51	0.0018	Acetic acid, 8-acetoxy-2-oxa-6-selena-adamantan-4-yl ester
81	19.71	0.0209	2,4,5,6,7,7a-Hexahydro-3,6-dimethyl-α-methylene-2-oxo-6-vinyl-5-benzofuranacetic acid methyl ester

82	19.78	0.0276	Phorbol
83	19.94-20.05	0.0049	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
84	20.26	0.2549	(E)-2,6-Dimethoxy-4-(prop-1-en-1-yl)phenol
85	20.59	0.0211	2,4-Cyclohexadien-1-one,3,5,6-trihydroxy-4,6-bis(3-
86	20.65	0.0649	Cyclopropanedodecanoic acid, 2-octyl-, methyl ester
87	20.85-21.16	0.0196	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
88	21.33	0.0160	Morphinan-4,5-diol-6-one, 1-bromo
89	21.37	0.0192	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
90	21.51	0.0032	Phorbol
91	21.63	0.0092	R1-Barrigenol
92	21.73	0.0163	Cyclopropanetetradecanoic acid, 2-octyl-, methyl ester
93	21.93	0.0109	Ethinyl estradiol, TMS derivative
94	22.05	0.0042	Phorbol
95	22.11	0.0170	1-Oxaspiro[4.5]decane-3-carboxylic acid, 4-cyano-2-
96	22.21	0.0113	Coniferyl aldehyde
97	22.45	0.0034	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
98	22.52	0.0072	Phorbol
99	22.63	0.0035	R1-Barrigenol
100	23.03	0.0117	Ethyl iso-allocholate
101	23.3	0.0013	[1,1'-Bicyclopropyl]-2-octanoic acid, 2'-hexyl-, methyl ester
102	23.34-23.93	0.0257	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
103	24	0.0040	Phorbol
104	24.11	0.0038	R1-Barrigenol
105	24.21	0.0195	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
106	25.1	0.0040	R1-Barrigenol
107	25.21	0.0062	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
108	25.49	0.0049	Propanoic ac-id,2-methyl-,[(3aS,6R,6aR,9aS,9bR)-dodecahydro-6a-hydroxy-9a-methyl-3-methylene-2,9-dioxoazuleno[4,5-b]furan-6-yl]methylester
109	25.55	0.0069	Trilinolein
110	25.71	0.0055	R1-Barrigenol
111	25.83	0.0021	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydroxyme-thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-dione
112	25.87	0.0020	Androstane-17,19-diol, 3,3-ethylenedioxy-4,4-dimethyl
113	25.91-26.12	0.0080	R1-Barrigenol
114	26.17-26.46	0.0132	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydrox

			yme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-di one
115	26.54	0.0029	3-Hydroxy-6-methoxyestra-1,3,5(10)-trien-17-one o-methyloxime
116	26.61	0.0044	(3aR)-3a,4,6aα,7,9,10,10a,10bβ-Octahydro-3aα,10aβ-dihydroxy-5-hydrox yme- thyl-7α-(1-hydroxy-1-methylethyl)-2,10β-dimethylbenz[e]azulene-3,8-di one
117	26.73	0.0031	R1-Barrigenol
118	26.85	0.0028	Dasycarpidan-1-methanol, acetate (ester)