APPENDIX 3

Extraction yields, *n*-alkane distribution type and values of aliphatic biomarker ratios of the extracts

Sample code	extract yield [mg/g]	*n*-alkane distribution type	CPI 1)	∑2/∑1 2)	C_{23}/C_{31} 3)	Pr/Ph 4)	Pr/ *n*-C_{17} 5)	Ph/ *n*-C_{18} 6)	$C_{31}S$/ (S+R) 7)	Ts/ (Ts+Tm) 8)	$C_{30}\beta\alpha$/ ($\alpha\beta$+$\beta\alpha$) 9)	$C_{29}S$/ (S+R) 10)	C_{29} $\alpha\beta\beta$/ ($\alpha\alpha\alpha$+$\alpha\beta\beta$) 11)	C_{29}/ C_{27} 12)	C_{27} dia/ C_{27} reg 13)
E1	0.20	3[*)]	1.21	1.80	1.73	0.98	1.00	0.64	0.56	0.26	0.16	0.42	0.45	1.10	0.34
E2	0.03	3	1.42	6.36	0.61	0.11	0.66	0.86	0.54	0.75	0.22	0.38	0.44	0.85	0.81
E3	0.17	2	1.48	3.10	1.24	0.60	0.59	0.33	0.56	0.36	0.22	0.33	0.55	0.84	0.45
E4	0.08	3	1.54	7.11	1.09	0.44	1.25	0.88	0.42	0.69	0.31	0.23	0.32	0.99	0.59
E5	0.12	2	1.31	5.46	1.16	0.49	1.18	0.61	0.48	0.88	0.30	–	–	–	–
E6	0.42	3	1.55	3.83	0.81	2.11	2.50	1.10	–	–	–	–	–	–	–
E7	0.94	1	1.01	2.24	1.51	0.61	0.80	1.10	0.58	0.77	0.07	0.51	0.51	1.40	–
E8	7.74	2	3.16	10.22	0.90	5.54	5.83	1.45	–	–	–	–	–	–	–
E9	0.05	3	1.27	4.53	0.55	0.48	1.07	0.79	0.55	0.76	0.11	0.40	0.37	0.81	0.17
E10	2.51	3	1.13	1.98	1.75	2.82	2.40	0.89	0.57	0.28	0.10	0.40	0.38	1.00	–
E11	1.47	1	1.04	1.30	4.19	2.27	2.00	0.79	0.52	0.70	0.16	–	–	–	–
E12	0.03	3	1.24	2.59	2.08	0.33	0.75	0.39	0.58	0.84	0.24	0.61	0.42	0.68	0.51
E13	0.22	3	1.29	3.66	2.00	0.37	1.04	0.78	0.56	0.87	0.21	–	–	–	–
E14	0.35	3	1.76	4.90	0.47	1.51	2.46	1.00	0.57	–	–	–	–	–	–
E15	0.09	1	1.09	2.22	3.68	0.80	0.43	0.22	0.30	0.85	0.04	0.41	0.42	0.80	0.82
E16	0.05	2	1.12	15.47	0.59	0.32	0.66	0.45	0.33	0.50	0.47	0.57	0.38	0.87	0.63
EG1	0.05	2	1.25	7.47	0.65	0.10	0.62	0.88	0.55	0.21	0.21	0.27	0.22	1.15	0.32
EG2	0.30	1	1.07	2.57	2.56	1.17	0.36	0.23	0.51	0.57	0.13	0.34	0.50	0.63	0.82
EG3	2.74	3	1.34	1.54	2.21	5.28	2.99	0.65	0.58	0.91	0.26	–	–	–	–
EG4	0.26	1	0.98	1.87	2.72	1.12	0.33	0.24	–	–	–	0.47	0.50	0.51	0.85

1) CPI =0.5{[(*n*-C_{25}+*n*-C_{27}+*n*-C_{29}+*n*-C_{31}+*n*-C_{33})/(*n*-C_{24}+*n*-C_{26}+*n*-C_{28}+*n*-C_{30}+*n*-C_{32})]+[(*n*-C_{25}+*n*-C_{27}+*n*-C_{29}+*n*-C_{31}+*n*-C_{33})/(*n*-C_{26}+*n*-C_{28}+*n*-C_{30}+*n*-C_{32}+*n*-C_{34})]; Carbon Preference Index; *m/z* = 71; thermal maturity parameter (Bray and Evans, 1963).
2) Σ2/ Σ 1= [Σ (from n-C_{23} to n-C_{37})]/[Σ (from n-C_{11} to n-C_{22})]; *m/z* = 71, source indicator (Tissot and Welte, 1984).
3) C_{23}/C_{31} = *n*-tricosane/*n*-hentriacontane (Pankost et al., 2002).
4) Pr/Ph = pristane/phytane; parameter of environment oxicity (with exception of coals); *m/z* = 71 (Didyk et al., 1978).
5) Pr/n-C_{17} = pristane/*n*-heptadecane; *m/z* = 71 (Leythauser and Schwartzkopf, 1985).
6) Ph/n-C_{18} = phytane/*n*-octadecane; *m/z* = 71 (Leythauser and Schwartzkopf, 1985).
7) C_{31}S/(S+R) = 17α(H),21β(H)-29-homohopane 22S/(17α(H),21β(H)-29-homohopane 22S+17α(H),21β(H)-29-homohopane 22R); m/z = 191; thermal maturity parameter (Seifert and Moldowan 1986).
8) Ts/(Ts+Tm) = 18α(H)-22,29,30-trisnorneohopane/(18α(H)-22,29,30-trisnorneohopane+17α(H)-22,29,30-trisnorhopane); *m/z* = 191; thermal maturity parameter (Seifert and Moldowan 1986).
9) C_{30}βα/(αβ+βα) = 17β(H),21α(H)-29-hopane C_{30}/(17α(H),21β(H)-29-hopane C_{30}+17β(H),21α(H)-29-hopane C_{30}); *m/z* = 191 (Seifert and Moldowan 1986).
10) C_{29}αααS/(S+R) = ratio of C_{29}-5<, 14<, 17< (H)-stigmastane 20S to a sum of its diastereomers 20S and 20R; *m/z* = 217. (Seifert and Moldowan 1986).
11) C_{29}ααα/(C_{29}ααα + C_{29}αββ) = ratio of C_{29}-5<,14α,17α(H)-stigmastane (20S + 20R) to a sum of its distereomers C_{29}-5<.14<.17< (H)-stigmastane (20S+20R) + C_{29}-5<,14<,17<(H)-stigmastane (20S + 20R), *m/z* = 217 (Seifert and Moldowan 1986).).
12) C_{29}/C_{27} = sum of C_{29} sterane diastereomers / sum of C_{27} sterane diastereomers, *m/z* = 217 (Huang and Meinschein 1979)
* number denotes a distribution type described in the text “
“–” compounds not detected or in concentrations too low to calculate a parameter value