

Priloga: Identifikacijske značilnosti za jedilno rastlinsko olje

Razpredelnica 1: Sestava maščobnih kislin rastlinskih olj, določena s plinsko tekočinsko kromatografijo (izraženo kot odstotek vseh maščobnih kislin)

Maščobna kislina	Arašidovo olje	Olje babassu	Kokosovo olje	Olje iz bombažnih semen	Olje grozdnih pečk	Olje koruznih kačkov	Gorčično olje	Olje palminih koščic	Palmino Olje	Palmin olein
C6:0	ND	ND	ND-0.7	ND	ND	ND	ND	ND-0.8	ND	ND
C8:0	ND	2.6-7.3	4.6-10.0	ND	ND	ND	ND	2.4-6.2	ND	ND
C10:0	ND	1.2-7.6	5.0-8.0	ND	ND	ND	ND	2.6-5.0	ND	ND
C12:0	ND-0.1	40.0-55.0	45.1-53.2	ND-0.2	ND	ND-0.3	ND	45.0-55.0	ND-0.5	0.1-0.5
C14:0	ND-0.1	11.0-27.0	16.8-21.0	0.6-1.0	ND-0.3	ND-0.3	ND-1.0	14.0-18.0	0.5-2.0	0.5-1.5
C16:0	5.0-14.0	5.2-11.0	7.5-10.2	21.4-26.4	5.5-11.0	8.6-16.5	0.5-4.5	6.5-10.0	39.3-47.5	38.0-43.5
C16:1	ND-0.2	ND	ND	ND-1.2	ND-1.2	ND-0.5	ND-0.5	ND-0.2	ND-0.6	ND-0.6
C17:0	ND-0.1	ND	ND	ND-0.1	ND-0.2	ND-0.1	ND	ND	ND-0.2	ND-0.2
C17:1	ND-0.1	ND	ND	ND-0.1	ND-0.1	ND-0.1	ND	ND	ND	ND-0.1
C18:0	1.0-4.5	1.8-7.4	2.0-4.0	2.1-3.3	3.0-6.5	ND-3.3	0.5-2.0	1.0-3.0	3.5-6.0	3.5-5.0
C18:1	35.0-80.0	9.0-20.0	5.0-10.0	14.7-21.7	12.0-28.0	20.0-42.2	8.0-23.0	12.0-19.0	36.0-44.0	39.8-46.0
C18:2	4.0-43.0	1.4-6.6	1.0-2.5	46.7-58.2	58.0-78.0	34.0-65.6	10.0-24.0	1.0-3.5	9.0-12.0	10.0-13.5
C18:3	ND-0.5	ND	ND-0.2	ND-0.4	ND-1.0	ND-2.0	6.0-18.0	ND-0.2	ND-0.5	ND-0.6
C20:0	0.7-2.0	ND	ND-0.2	0.2-0.5	ND-1.0	0.3-1.0	ND-1.5	ND-0.2	ND-1.0	ND-0.6
C20:1	0.7-3.2	ND	ND-0.2	ND-0.1	ND-0.3	0.2-0.6	5.0-13.0	ND-0.2	ND-0.4	ND-0.4
C20:2	ND	ND	ND	ND-0.1	ND	ND-0.1	ND-1.0	ND	ND	ND
C22:0	1.5-4.5	ND	ND	ND-0.6	ND-0.5	ND-0.5	0.2-2.5	ND-0.2	ND-0.2	ND-0.2
C22:1	ND-0.6	ND	ND	ND-0.3	ND-0.3	ND-0.3	22.0-50.0	ND	ND	ND
C22:2	ND	ND	ND	ND-0.1	ND	ND	ND-1.0	ND	ND	ND
C24:0	0.5-2.5	ND	ND	ND-0.1	ND-0.4	ND-0.5	ND-0.5	ND	ND	ND
C24:1	ND-0.3	ND	ND	ND	ND	ND	0.5-2.5	ND	ND	ND

Maščobna kislina	Palmin stearin	Olje oljne ogracice / repico olje	Olje barvnega rumenika / zafranikino olje	Sezamovo olje	Sojino olje	Sončnično olje	Sončnično olje z visoko vsebnostjo oleinske kisline	Bučno olje
C6:0	ND	ND	ND	ND	ND	ND	ND	ND
C8:0	ND	ND	ND	ND	ND	ND	ND	ND
C10:0	ND	ND	ND	ND	ND	ND	ND	ND
C12:0	0.1-0.5	ND	ND	ND	ND-0.1	ND-0.1	ND	ND
C14:0	1.0-2.0	ND-0.2	ND-0.2	ND-0.1	ND-0.2	ND-0.2	ND-0.1	ND-0.2
C16:0	48.0-74.0	2.5-7.0	5.3-8.0	7.9-12.0	8.0-13.5	5.0-7.6	2.6-5.0	6-16
C16:1	ND-0.2	ND-0.6	ND-0.2	ND-0.2	ND-0.2	ND-0.3	ND-0.1	ND-0.3
C17:0	ND-0.2	ND-0.3	ND-0.1	ND-0.2	ND-0.1	ND-0.2	ND-0.1	
C17:1	ND-0.1	ND-0.3	ND-0.1	ND-0.1	ND-0.1	ND-0.1	ND-0.1	
C18:0	3.9-6.0	0.8-3.0	1.9-2.9	4.5-6.7	2.0-5.4	2.7-6.5	2.9-6.2	3-16
C18:1	15.5-36.0	51.0-70.0	8.4-21.3	34.4-45.5	17-30	14.0-39.4	75-90.7	16-49
C18:2	3.0-10.0	15.0-30.0	67.8-83.2	36.9-47.9	48.0-59.0	48.3-74.0	2.1-17	32-58
C18:3	ND-0.5	5.0-14.0	ND-0.1	0.2-1.0	4.5-11.0	ND-0.3	ND-0.3	ND-1.0
C20:0	ND-1.0	0.2-1.2	0.2-0.4	0.3-0.7	0.1-0.6	0.1-0.5	0.2-0.5	ND-1.0
C20:1	ND-0.4	0.1-4.3	0.1-0.3	ND-0.3	ND-0.5	ND-0.3	0.1-0.5	ND-0.5
C20:2	ND	ND-0.1	ND	ND	ND-0.1	ND	ND	
C22:0	ND-0.2	ND-0.6	ND-1.0	ND-1.1	ND-0.7	0.3-1.5	0.5-1.6	ND-0.3
C22:1	ND	ND-2.0	ND-1.8	ND	ND-0.3	ND-0.3	ND-0.3	
C22:2	ND	ND-0.1	ND	ND	ND	ND-0.3	ND	
C24:0	ND	ND-0.3	ND-0.2	ND-0.3	ND-0.5	ND-0.5	ND-0.5	
C24:1	ND	ND-0.4	ND-0.2	ND	ND	ND	ND	

ND – ni detektirano ($\leq 0,05$ %)

Prazno polje – ni definirano

Razpredelnica 2: Kemijske in fizikalne lastnosti surovih rastlinskih olj

	Arašidovo olje	Olje babassu	Kokosovo olje	Olje iz bombažnih semen	Olje grozdnih pečk	Olje koruznih kalčkov	Gorčično olje	Olje palminih koščic	Palmino olje	Palmin olein
Relativna gostota (x°C/voda pri 20°C)	0.909-0.920 x=20°C	0.914-0.917 x=25°C	0.908-0.921 x=40°C	0.918-0.926 x=20°C	0.920-0.926 x=20°C	0.917-0.925 x=20°C	0.910-0.921 x=20°C	0.899-0.914 x=40°C	0.891-0.899 x=50°C	0.899-0.920 x=40°C
Navidezna gostota (g/ml)									0.889-0.895 (50°C)	0896-0.898 at 40°C
Indeks refrakcije (ND 40 °C)	1.460-1.465	1.448-1.451	1.448-1.450	1.458-1.466	1.467-1.477	1.465-1.468	1.461-1.469	1.448-1.452	1.454-1.456 at 50°C	1.458-1.460
Število umiljenja (mg KOH/g olja)	187-196	245-256	248-265	189-198	188-194	187-195	168-184	230-254	190-209	194-202
Jodno število	77-107	10-18	6.3-10.6	100-123	128-150	103-135	92-125	14.1-21.0	50.0-55.0	≥ 56
Neumiljive snovi (%) ≤ 10		≤ 12	≤ 15	≤ 15	≤ 20	≤ 28	≤ 15	≤ 10	≤ 12	≤ 13
Stopnja stabilnega ogljikovega izotopa						-13.71 to-16.36				

Prazno polje – ni definirano

	Palmin stearin	Olje oljne ogrščice / repično olje	Olje barvnega rumenika / žafrenikino olje	Sezamovo olje	Sojino olje	Sončnično olje	Sončnično visoko vsebnostjo oleinske kislone	Bučno olje
Relativna gostota (x°C/voda pri 20°C)	0.881-0.891 x=60°C	0.914-0.920 x=20°C	0.922-0.927 x=20°C	0.915-0.924 x=20°C	0.919-0.925 x=20°C	0.918-0.923 x=20°C	0.909-0.915 x=25°C	0.916-0.923 x=20 °C
Navidezna gostota (g/ml)	0.881-0.885 pri-60°C							
Indeks refrakcije (ND 40 °C)	1.447-1.452 pri 60°C	1.465-1.467	1.467-1.470	1.465-1.469	1.466-1.470	1.461-1.468	1.467-1.471 pri 25°C	1.465-1.475 pri 20 °C
Število umiljenja (mg KOH/g olja)	193-205	182-193	186-198	186-195	189-195	188-194	182-194	185-197
Jodno število	≤ 48	105-126	136-148	104-120	124-139	118-141	78-90	99-125
Neumiljive snovi (%) (g/kg)	≤ 9	≤ 20	≤ 15	≤ 20	≤ 15	≤ 15	≤ 15	≤ 1,2

Razpredelnica 3: Vrednosti desmetilsterolov v surovih rastlinskih oljih kot odstotek skupnih sterolov

	Arašidovo olje	Olje babassu	Kokosovo olje	Olje iz bombažnih semen	Olje grozdnih pečk	Olje koruznih kačkov	Olje palminih koščic	Palmino Olje	Palmin olein
Holesterol	ND-3.8	1.2-1.7	ND-3.0	0.7-2.3	ND-0.5	0.2-0.6	0.6-3.7	2.6-6.7	2.6-7.0
Brassicasterol	ND-0.2	ND-0.3	ND-0.3	0.1-0.3	ND-0.2	ND-0.2	ND-0.8	ND	ND
Kampesterol	12.0-19.8	17.7-18.7	6.0-11.2	6.4-14.5	7.5-14.0	16.0-24.1	8.4-12.7	18.7-27.5	12.5-39.0
Stigmasterol	5.4-13.2	8.7-9.2	11.4-15.6	2.1-6.8	7.5-12.0	4.3-8.0	12.0-16.6	8.5-13.9	7.0-18.9
Beta-sitosterol	47.4-69.0	48.2-53.9	32.6-50.7	76.0-87.1	64.0-70.0	54.8-66.6	62.6-73.1	50.2-62.1	45.0-71.0
Delta-5-avenasterol	5.0-18.8	16.9-20.4	20.0-40.7	1.8-7.3	1.0-3.5	1.5-8.2	1.4-9.0	ND-2.8	ND-3.0
Delta-7-stigmasterol	ND-5.1	ND	ND-3.0	ND-1.4	0.5-3.5	0.2-4.2	ND-2.1	0.2-2.4	ND-3.0
Delta-7-avenasterol	ND-5.5	0.4-1.0	ND-3.0	0.8-3.3	0.5-1.5	0.3-2.7	ND-1.4	ND-5.1	ND-6.0
Others	ND-1.4	ND	ND-3.6	ND-1.5	ND-5.1	ND-2.4	ND-2.7	ND	ND-10.4
Skupni steroli (mg/kg)	900-2900	500-800	400-1200	2700-6400	2000-7000	7000-22100	700-1400	300-700	270-800

	Palmin stearin	Olje oljne ogrščice / repično olje	Olje barvnega rumenika / žafrenikino olje	Sezamovo olje	Sojino olje	Sončnično olje	Sončnično visoko vsebnostjo oleinske kisline
Holesterol	2.5-5.0	ND-1.3	ND-0.7	0.1-0.5	0.2-1.4	ND-0.7	ND-0.5
Brassicasterol	ND	5.0-13.0	ND-0.4	0.1-0.2	ND-0.3	ND-0.2	ND-0.3
Kampesterol	15.0-26.0	24.7-38.6	9.2-13.3	10.1-20.0	15.8-24.2	6.5-13.0	5.0-13.0
Stigmasterol	9.0-15.0	0.2-1.0	4.5-9.6	3.4-12.0	14.9-19.1	6.0-13.0	4.5-13.0
Beta-sitosterol	50.0-60.0	45.1-57.9	40.2-50.6	57.7-61.9	47.0-60	50-70	42.0-70
Delta-5-avenasterol	ND-3.0	2.5-6.6	0.8-4.8	6.2-7.8	1.5-3.7	ND-6.9	1.5-6.9
Delta-7-stigmasterol	ND-3.0	ND-1.3	13.7-24.6	0.5-7.6	1.4-5.2	6.5-24.0	6.5-24.0
Delta-7-avenasterol	ND-3.0	ND-0.8	2.2-6.3	1.2-5.6	1.0-4.6	3.0-7.5	ND-9.0
Others	ND-5.0	ND-4.2	0.5-6.4	0.7-9.2	ND-1.8	ND-5.3	3.5-9.5
Skupni steroli (mg/kg)	250-500	4500-11300	2100-4600	4500-19000	1800-4500	2400-5000	1700-5200

ND – ni detektirano ($\leq 0,05\%$)

Razpredelnica 4: Vsebnost tokoferolov in tokotrienolov v surovih rastlinskih oljih (mg/kg)

	Arašidovo olje	Olje babassu	Kokosovo olje	Olje iz bombažnih koščic	Olje grozdnih pečk	Olje koruznih kalčkov	Olje palminih koščic	Palmino olje	Palmin olein
Alfa-tokoferol	49-373	ND	ND-17	136-674	16-38	23-573	ND-44	4-193	30-280
Beta-tokoferol	ND-41	ND	ND-11	ND-29	ND-89	ND-356	ND-248	ND-234	ND-250
Gama-tokoferol	88-389	ND	ND-14	138-746	ND-73	268-2468	ND-257	ND-526	ND-100
Delta-tokoferol	ND-22	ND	ND	ND-21	ND-4	23-75	ND	ND-123	ND-100
Alpha-tokotrienol	ND	25-46	ND-44	ND	18-107	ND-239	ND	4-336	50-500
Gamma-tokotrienol	ND	32-80	ND-1	ND	115-205	ND-450	ND-60	14-710	20-700
Delta-tokotrienol	ND	9-10	ND	ND	ND-3.2	ND-20	ND	ND-377	40-120
Skupaj (mg/kg)	170-1300	60-130	ND-50	380-1200	240-410	330-3720	ND-260	150-1500	300-1800

	Palmin stearin	Olje oljne ogrščice / repično olje	Olje barvnega rumenika / žafrenikino olje	Sezamovo olje	Sojino olje	Sončnično olje	Sončnično olje z visoko vsebnostjo oleinske kisline
Alfa-tokoferol	ND-100	100-386	234-660	ND-3.3	9-352	403-935	400-1090
Beta-tokoferol	ND-50	ND-140	ND-17	ND	ND-36	ND-45	10-35
Gama-tokoferol	ND-50	189-753	ND-12	521-983	89-2307	ND-34	3-30
Delta-tokoferol	ND-50	ND-22	ND	4-21	154-932	ND-7.0	ND-17
Alpha-tokotrienol	20-150	ND	ND	ND	ND-69	ND	ND
Gamma- tokotrienol	10-500	ND	ND-12	ND-20	ND-103	ND	ND
Delta-tokotrienol	5-150	ND	ND	ND	ND	ND	ND
Skupaj (mg/kg)	100-700	430-2680	240-670	330-1010	600-3370	440-1520	450-1120

ND – ni detektirano ($\leq 0,05$ %)

Prazno polje – ni definirano