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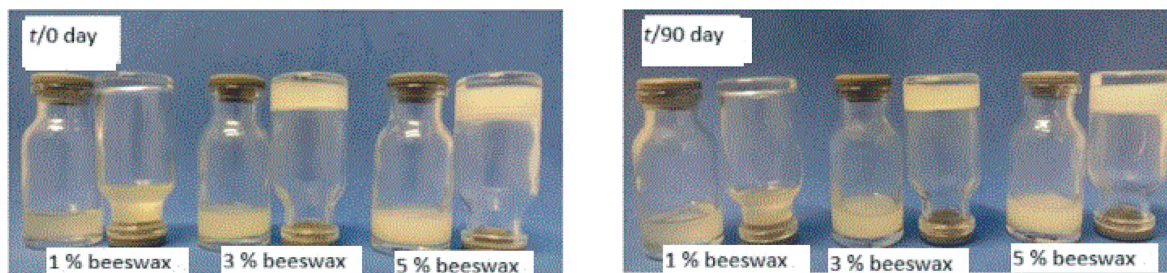


Fig. S1. Visual analysis of 90-day storage stability of oleogel *Butia* seed oil with $w(\text{beeswax})=1, 3$ and 5%

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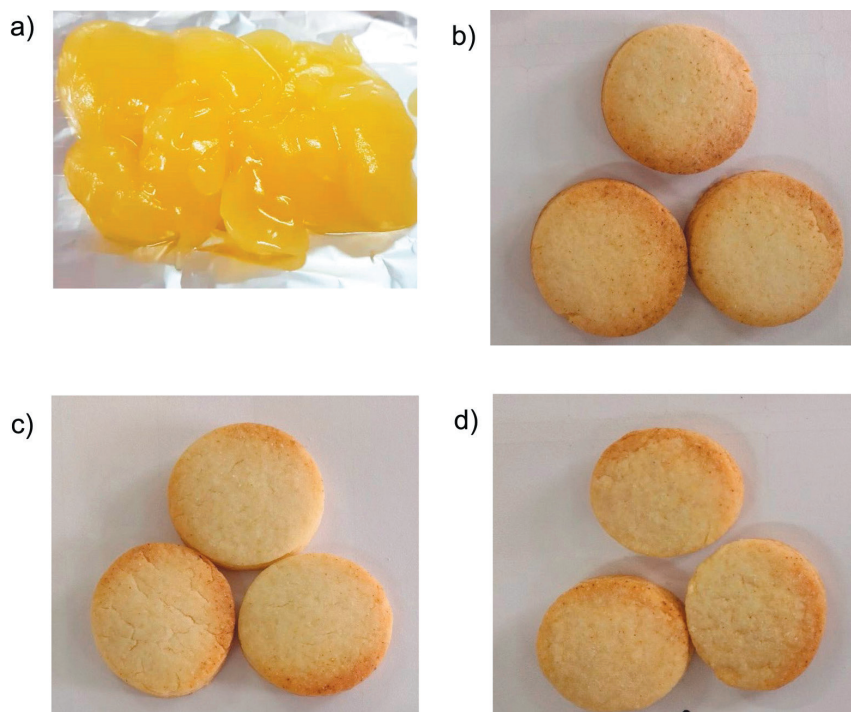


Fig. S2. Oleogel containing $w(\text{beeswax})=5\%$ and *Butia* seed oil (a); cookies made with: b) hydrogenated vegetable fat, c) oleogel, and d) *Butia* seed oil

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Table S1. Polar fraction of the compounds identified in the beeswax

Polar fraction	IS	IRL	IRL _{exp}	Reference ion (NIST11)	Reference ion exp	w/%
13-Octadecenoic acid, (E)-, TMS	93	2194	2227	73.00 (100), 75.00 (93.89), 55.00 (81.38)	73.05 (100), 75.00 (86.20), 55.05 (44.33)	1.18
1-Nonadecene	90	1900	1938	97.00 (100), 83.00 (92.94), 43.00 (91.76)	97.10 (100), 83.10 (86.60), 43.05 (52.80)	0.42
9-Hexadecenoic acid, (Z)-, TMS	94	1995	2017	117.00 (100), 73.00 (98.60), 75.00 (97.70)	73.05 (100), 17.05 (96.28), 75.00 (89.53)	2.08
Arachidic acid, TMS	90	2385	2416	73.00 (100), 117.00 (76.58), 75.00 (67.22)	117.05 (100), 73.05 (77.09), 75.00 (59.93)	0.72
Docosane	95	2208	2200	57.00 (100), 71.00 (71.33), 43.00 (63.42)	57.10 (100), 71.10 (91.67), 43.05 (58.39)	8.97
Eicosane	95	2009	2010	57.00 (100), 71.00 (77.28), 43.00 (63.07)	57.10 (100), 71.10 (91.67), 43.05 (58.39)	30.31
Elaidic acid, (E)-, TMS	94	2194	2215	73.00 (100), 117.00 (95.00), 75.00 (94.60)	117.05 (100), 73.05 (94.12), 75.00 (78.03)	14.83
Heneicosane	96	2109	2100	57.00 (100), 71.00 (70.27), 85.00 (54.95)	57.10 (100), 71.10 (77.11), 85.10 (55.77)	1.34
Heptacosanol	94	2948	3016	57.00 (100), 97.00 (97.00), 83.00 (95.20)	97.10 (100), 83.10 (95.93), 57.10 (79.03)	1.08
Linoleic acid, TMS	94	2202	2208	75.00 (100), 73.00 (97.90), 67.00 (65.07)	73.05 (100), 75.00 (82.12), 67.05 (60.60)	8.26
Methyl stearate	91	2077	2102	74.00 (100), 87.00 (74.48), 43.00 (33.73)	74.00 (100), 87.05 (60.32), 43.05 (26.18)	1.50
Palmitic acid, TMS	93	1987	2036	117.00 (100), 73.00 (86.09), 313.00 (68.97)	117.05 (100), 73.05 (81.64), 313.20 (59.32)	24.18
Stearic acid, TMS	92	2186	2234	117.00 (100), 73.00 (77.08), 341.00 (67.17)	117.05 (100), 73.05 (77.72), 341.25 (55.38)	2.59
Tetracosanol	94	2650	2700	57.00 (100), 83.00 (95.40), 55.00 (94.70)	83.10 (100), 57.05 (78.64), 55.05 (63.11)	2.54

IS=index of similarity from NIST11 (National Institute of Standards and Technology) library (18), IRL=index of retention from NIST11 library, IRL_{exp}=experimental index of retention (based on homologous series *n*-alkane C8–C21). Reference ions (relative intensity, base peak=100 %) from NIST11 library and reference ions experimental. TMS=trimethylsilyl ester

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Table S2. Nonpolar fraction of the compounds identified in the beeswax

Non-polar fraction	IS	IRL	IRL _{exp}	Reference ion (NIST11)	Reference ion exp	w/%
9-Hexacosene	92	2614	2566	43.00 (100), 97.00 (97.06), 57.00 (96.53)	97.10 (100), 43.05 (86.25), 57.05 (69.51)	9.09
E,E,Z-1,3,12-Nonadecatriene-5,14-diol	90	2241	2200	55.00 (100), 95.00 (85.17), 81.00 (79.74)	81.05 (100), 55.05 (84.98), 95.10 (75.51)	1.13
Eicosane	96	2009	2000	57.00 (100), 71.00 (77.28), 43.00 (63.07)	57.05 (100), 71.10 (94.88), 43.05 (61.42)	1.80
Hexatriacontane	93	3600	3400	57.00 (100), 71.00 (74.40), 43.00 (54.90)	57.05 (100), 71.10 (99.78), 43.05 (56.6)	6.66
Methyl elaidate	95	2085	2084	55.00 (100), 69.00 (95.50), 74.00 (90.20)	55.05 (100), 69.05 (86.55), 74.05 (72.32)	0.42
Methyl palmitate	93	1878	1920	74.00 (100), 87.00 (72.07), 43.00 (32.53)	74.00 (100), 87.05 (55.29), 43.05 (22.05)	0.88
Methyl stearate	92	2077	2109	74.00 (100), 87.00 (76.48), 298.00 (35.23)	74.05 (100), 87.05 (61.54), 298.25 (26.97)	1.84
Neoheptanol	86	875	868	43.00 (100), 85.00 (51.01), 41.00 (29.00)	43.05 (100), 85.10 (40.14), 41.05 (20.72)	0.22
Nonadecyl trifluoroacetate	94	2110	2100	57.00 (100), 97.00 (97.40), 83.00 (84.49)	97.10 (100), 83.10 (87.39), 57.05 (72.44)	2.51
Olean-12-en-3-ol	90	2886	2970	218 (100), 203 (43.84), 219.00 (18.02)	218.15 (100), 103.10 (54.22), 219.15 (18.02)	0.36
Oleic acid	90	2175	2171	55.00 (100), 69.00 (81.98), 83.00 (77.58)	55.05 (100), 69.05 (94.33), 83.10 (74.97)	1.20
Oleic acid amide	90	2228	2375	59.00 (100), 72.00 (50.30), 55.00 (22.69)	59.00 (100), 72.05 (77.13), 55.05 (25.42)	3.69
Palmitic acid	91	1968	1967	60.00 (100), 73.00 (98.10), 57.00 (84.09)	73.05 (100), 60.00 (66.88), 57.05 (62.71)	2.93
Tetracosane	94	2407	2400	57.00 (100), 71.00 (68.00), 43.00 (56.20)	57.05 (100), 71.10 (91.59), 43.05 (59.00)	12.32
Tetratriacontane	95	3401	3400	57.00 (100), 71.00 (71.20), 43.00 (54.40)	57.05 (100), 71.10 (73.68), 85.10 (63.35)	21.92
Triacotane	95	3003	3000	57.00 (100), 71.00 (72.10), 85.00 (53.50)	57.05 (100), 71.10 (82.81), 85.10 (68.39)	31.85
Trimethylsilyl palmitate	93	1987	2041	117.00 (100), 73.00 (86.09), 313.00 (68.97)	117.05 (100), 73.05 (74.56), 313.20 (60.08)	1.18

IS=index of similarity from NIST11 (National Institute of Standards and Technology) library (18), IRL=index of retention from NIST11 library, IRL_{exp}=experimental index of retention (based on homologous series *n*-alkane C8–C21). Reference ions (relative intensity, base peak=100 %) from NIST11 library and experimental reference ions