

Additional file 2: List of standard fatty acids used as calibration standards for ratiometric analysis of Raman spectra.

Sample	Mol. Wt.	C-atoms	C=C bonds	N_{C=C} / N_{CH₂}	Lipid number	T_m (°C)
Myristic acid	228.37	14	0	0	14:0	54
Palmitic acid	256.42	16	0	0	16:0	63
Lignoceric acid	368.63	24	0	0	24:0	84
Myristoleic acid	226.36	14	1	0.11	14:1	- 4
Palmitoleic acid	245.41	16	1	0.08	16:1	-0.1
Oleic acid	282.46	18	1	0.07	18:1	13
cis-11,14 Eicosadienoic acid	308.50	20	2	0.13	20:2	24
Linoleic acid	280.45	18	2	0.15	18:2	-5
cis-8,11,14- Eicosatrienoic acid	306.48	20	3	0.25	20:3	NA
Linolenic acid	278.43	18	3	0.30	18:3	-9.5
Arachidonic acid	304.50	20	4	0.36	20:4	-49