

## Supplementary Materials

**Table S1. Gas chromatography retention time of standard fatty acids**

Fatty acids		Retention time
C4:0	Butyric acid	13.980
C6:0	Caproic acid	15.990
C8:0	Caprylic acid	19.301
C10:0	Capric acid	23.774
C11:0	Undecanoic acid	26.305
C12:0	Lauric acid	28.719
C13:0	Tridecanoic acid	31.214
C14:0	Myristic acid	33.580
C14:1	Myristoleic acid	35.554
C15:0	Pentadecanoic acid	35.904
C15:1	<i>Cis</i> -10-Pentadecenoic acid	37.804
C16:0	Palmitic acid	38.167
C16:1	Palmitoleic acid	39.679
C17:0	Heptadecanoic acid	40.271
C17:1	<i>Cis</i> -10-Heptadecenoic acid	41.757
C18:0	Stearic acid	42.385
C18:1n-9,trans	Elaidic acid	43.238
C18:1n-9,cis	Oleic acid	43.634
C18:2n-6,trans	Linolelaidic acid	44.610
C18:2n-6,cis	Linoleic acid	45.499
C20:0	Arachidic acid	46.308
C18:3n-6	$\gamma$ -Linolenic acid	46.918
C20:1	<i>Cis</i> -11-Eicosenoic acid	47.395
C18:3n-3	Linolenic acid	47.661
C21:0	Heneicosanoic acid	48.120
C20:2	<i>Cis</i> -11,14-Eicosadienoic acid	49.157
C20:2	Behenic acid	49.982
C20:3n-6	<i>Cis</i> -8,11,14-Eicosatrienoic acid	50.469
C20:1n-9	Erucis acid	50.970
C20:3n-3	<i>Cis</i> -11,14,17-Eicosatrienoic acid	51.178
C20:4n-6	Arachidonic acid	51.502
C23:0	Tricosanoic acid	51.675
C22:2	<i>Cis</i> -13,16-Docosadienoic acid	52.638
C24:0	Lignoceric acid	53.518
C20:5n-3	<i>Cis</i> -5,8,11,14,17-Eicosapentaenoic acid	53.682
C24:1	Nervonic acid	54.522
C22:6n-3	<i>Cis</i> -4,7,10,13,16,19-Docosahexaenoic acid	58.740

**Table S2.** Gas chromatography retention time of standard amino acids

Amino acids	Retention time
Alanine	1.703
Sarcosine	1.765
Glycine	1.808
$\alpha$ -Aminobutyric acid	1.905
Valine	1.998
$\beta$ -Aminobutyric acid	2.077
Norvaline	2.120
Leucine	2.198
allo-Isoleucine	2.229
Isolucine	2.254
Threonine	2.457
Serine	2.499
Proline	2.572
Asparagine	2.656
Thioprolin	2.998
Aspartic acid	3.164
Methionine	3.199
4-Hydroxyproline	3.335
Glutamic acid	3.494
Phenylalanine	3.536
$\alpha$ -Aminoadipic acid	3.779
$\alpha$ -Aminopimelic acid	4.023
Glutamine	4.105
Ornithine	4.456
Glycine-proline	4.514
Lysine	4.696
Histidine	4.879
Hydroxylysine	5.055
Tyrosine	5.141
Proline-hydroxyproline	5.342
Tryptophan	5.431
Cystathionine	5.855
Cystine	6.066