Time	Notes/Sensory	Time relative to	Time relative to	Blood
Time		cansule indestion	tasting (minutes)	draw #
	exposure	(minutes)	tasting (minutes)	
0730		-30	-45	1
0740		-20	-35	2
0750		-20	-35	2
0730	"0" time – consume cap	sules (15' to consume)	-25	
0815			0	
0818		+ 19	3	1
0820	taste	+ 20	5	
0823		+ 23	8	5
0825	taste	+ 25	10	
0020		+ 23	10	6
0830	tasta	+ 20	15	0
0030	18316	+ 30	18	7
0835	tasto	+ 35	20	,
0833		+ 39	20	8
0840	tasto	+ 30	25	0
0840	laste	+ 40	23	0
0845	tasta	+ 45	20	9
0850	taste	+ 45	30	
0850	laste	+ 50		10
0055	taata	+ 55	30	10
0000	laste	+ 55	40	
0900	laste	+ 60	43	11
0903		+ 03	40	10
0910	taata	+ 70	CC	12
0915	laste	+ 75	60	10
0920	taata	+ 80	00 75	13
0930	laste	+ 90	75	14
0935	taata	+ 95	80	14
0945	laste	+ 105	90	15
1000	taata	+ 110	90	15
1000	laste	+ 120	100	16
1045		+ 165	105	10
1130		+ 270	190	10
1230		+ 270	200	10
1250	"O" time - start of drink (+ 290	270	19
1300			200	20
1320		+ 20	305	21
1340		+ 40	323	22
1400		+ 60	345	23
1420		+ 00	303	24
1430		+ 90	3/5	20
1450		+ 110	390	20
1500		+ 120	405	21
1530		+ 150	435	28
1000		+ 180	405	29
1630		+ 210	495	30
1700		+ 240	525	31

Supplementary Table 1 "Dynamics of fat absorption and impact of sham feeding on postprandial lipema Clinical testing schedule E. Parks

Note different time points for blood draws were used for various measurements depending on the rate of change of the metabolite. For instance, time points for insulin measurement were optimized to detect immediate postprandial increases after lunch (see figure 2B), while the temporal pattern of TAG concentrations occurs later in the postprandial state.

	Sources of dietary fat			
Fatty acids (wt %)	Evening meal shake	Capsule Fat	Liquid Lunch	
14:0	0.1 ± 0.0	0.1 ± 0.0	7.7 ± 0.9	
16:0	14.1 ± 1.2	7.0 ± 2.8	29.7 ± 1.4	
16:1, n-7	1.2 ± 0.1	0.1 ± 0.0	1.4 ± 0.1	
18:0	5.9 ± 1.1	4.5 ± 0.9	20.8 ± 2.2	
18:1, n-9	66.1 ± 2.0	18.7 ± 1.6	34.8 ± 2.6	
18:1, n-7	0.4 ± 0.9	ND	0.9 ± 0.0	
18:2, n-6	12.3 ± 0.6	67.5 ± 3.2	4.2 ± 0.5	
20:1, n-9	0.3 ± 0.0	0.1 ± 0.1	0.2 ± 0.1	
20:0	0.1 ± 0.2	0.4 ± 0.0	0.3 ± 0.2	
22:0	0.1 ± 0.0	0.7 ± 0.0	0.1 ± 0.1	

ND: not detectable by GC

The compositions of fatty acids in serum NEFA, lipoprotein-, meal-, and cream cheese were determined using an HP6890 gas chromatograph (Hewlett Packard, Norwalk, CT) as described previously.¹ The HF cream cheese contained 1.55g TAG, with the majority of the TAG-fatty acids as 14:0 (9%), 16:0 (32%), 18:1 (30%), and 18:2 (4%) and 17 mg free fatty acids per 5g aliquot (14:0 (7%), 16:0 (55%), 18:1 (24%), and 8:2 (4%)). The LF cream cheese contained 0.07g TAG and the TAG-fatty acid composition was 14:0 (9%), 16:0 (32%), 18:1 (30%), and 18:2 (5%), and undetectable amounts of free fatty acids per 5g aliquot.

To determine the enrichment of label in lipoprotein-TAG fatty acids and in meal-TAG, lipids were extracted² and the enrichment of oleic acid methyl esters determined by GC/MS, performed on an HP 6890 with a Mass Selective Detector HP 5973 using a DB-225 column ($30m \times 0.25 mm$ id and 0.25 um film thickness) with helium as the carrier gas. Electron impact was used to selectively monitor ions of oleic acid methyl esters with mass to charge ratios (m/z) 296, 297, 298, 302 and 303. Enrichments were calculated in duplicate, using a 5-point standard curve. Comparable ion peak areas between standards and biological samples were achieved by either adjusting the volume injected, diluting, or concentrating the sample.

1. Donnelly KL, Smith CI, Schwarzenberg SJ, Jesserun J, Parks EJ. Sources of fatty acids stored in liver and secreted via lipoproteins in patients with nonalcoholic fatty liver disease. J Clin Invest 2005;115:1343-1351.

2. Folch J, Lees M, Sloane Stanley GH. A simple method for the isolation and purification of total lipids from animal tissues. *J Biol Chem* 1957;**226**:497-509.





Supplementary Figure 2. Correlations between fasting NEFA concentration and residual evening-meal ¹³C₂ enrichment in the morning before sensory exposure



Supplementary Figure 3. Labeling pattern of capsule isotope and fatty acid in >400-TAG



Supplementary figure 3 displays the labeling patterns of capsule isotope entry ($^{13}C_7$ triolein) and unlabelled linoleic acid (18:2, n-6) fed as TAG in capsules during A) the HF test, and B) the LF test. Similar absorption kinetics are reflected by these two parameters early in the test (between 0 and 2 hr). After this time, between 2 and 4 hr, the two curves diverge which could reflect use of the enterocyte lipid droplet (e.g., the droplet would be rich in oleic acid from last night's meal and would dilute the $^{13}C_7$ label if it is used for chylomicron-TAG synthesis).