

Supplementary Information

Supplementary table 1. Diet composition comparing Fat free with open standard diet.

Product #	D11112201		D18012302	
	Open Standard Diet		Fat Free Diet	
	gm%	kcal%	gm%	kcal%
Protein	19	20	18.5	22
Carbohydrate	63.1	65	67.3	78
Fat	6.5	15	0.0	0
Total		100		100
kcal/gm	3.81		3.38	
Ingredient	gm	kcal	gm	kcal
Casein	200	800	220	880
L-Cystine	3	12	3	12
Corn Starch	381	1524	478.5	1914
Maltodextrin 10	110	440	150	600
Dextrose	150	600	150	600
Cellulose, BW200	75	0	125	0
Inulin	25	37.5	25	37.5
Soybean Oil	70	630	0	0
Lard	0	0	0	0
Mineral Mix S10026	10	0	10	0
Dicalcium Phosphate	13	0	13	0
Calcium Carbonate	5.5	0	5.5	0
Potassium Citrate, 1 H ₂ O	16.5	0	16.5	0
Vitamin Mix V10001	10	40	10	40
Choline Bitartrate	2	0	2	0
Yellow Dye #5, FD&C	0.025	0	0.05	0
Red Dye #40, FD&C	0	0	0	0
Blue Dye #1, FD&C	0.025	0	0	0
Total	1071.05	4084	1208.55	4084

Supplementary Table 2 – Lipid composition of SPLASH LipidoMix™, which contains a mixture of all major lipid classes found in biological samples.

Lipid Species	Concentration (µg/mL)
PC(15:0_18:1{d7})	160.7
PE (15:0_18:1{d7})	50.8
PS(15:0_18:1{d7})	203.7
PG(15:0_18:1{d7})	29.1
PI(15:0_18:1{d7})	900.8
PA(15:0_18:1{d7})	357.4
LPC(18:1{d7})	25.5
LPE(18:1{d7})	95.0
CE(18:1{d7})	356.1
MAG(18:1{d7})	199.7
DAG(15:0_18:1{d7})	9.4
TAG(15:0_18:1{d7}_15:0)	57.3
SM(18:1{d7})	30.9
Cer(15:0{d7})	19.7