Dietary emulsifier glycerol monodecanoate affects gut microbiota contributing to regulating lipid metabolism, insulin sensitivity and inflammation

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Supplemental Table 1

Compositions of experimental diets

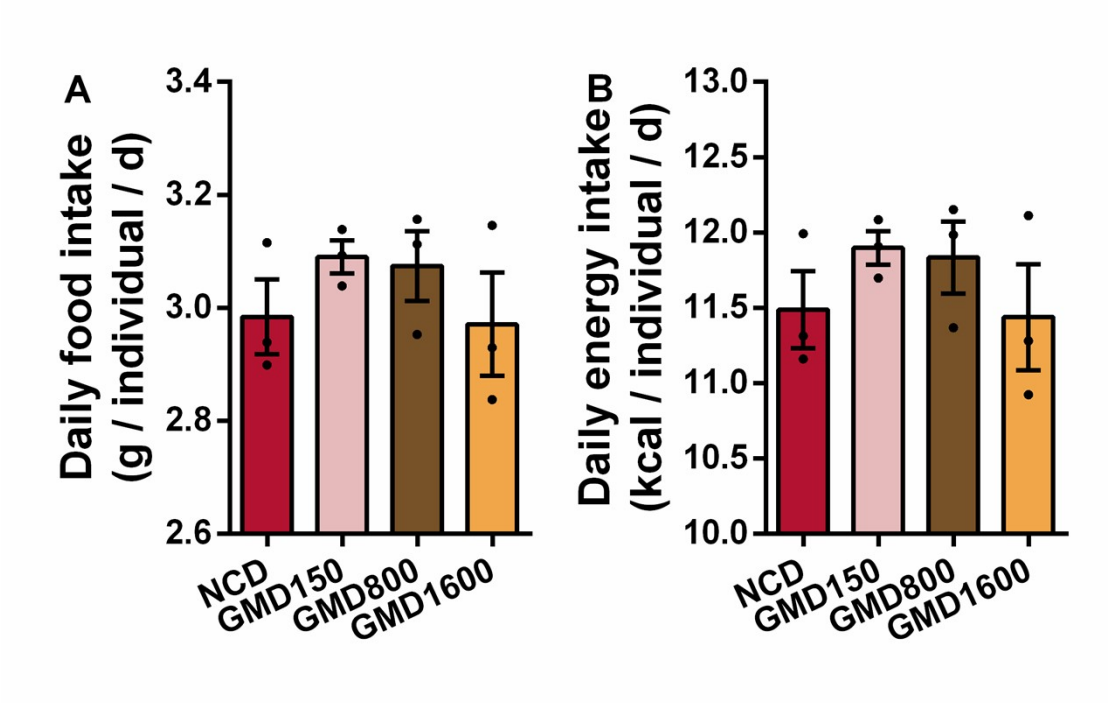
Ingredients (g / 100 g diet)	**NCD**	**GMD150**	**GMD800**	**GMD1600**
Casein	18.96	18.96	18.96	18.96
L-Cystine	0.28	0.28	0.28	0.28
Corn Starch	29.86	29.86	29.86	29.86
Maltodextrin	3.32	3.32	3.32	3.32
Sucrose	33.17	33.17	33.17	33.17
Cellulose	4.74	4.74	4.74	4.74
Soybean Oil	2.37	2.37	2.37	2.37
Lard	1.90	1.89	1.82	1.74
GMD	0	0.015	0.08	0.16
Mineral Mix	2.68	2.68	2.68	2.68
Potassium Citrate, 1 H_2O	1.56	1.56	1.56	1.56
Vitamin Mix	0.95	0.95	0.95	0.95
Choline Bitartrate	0.19	0.19	0.19	0.19
Calories supplementation (kcal %)				
Proteins	20	20	20	20
Carbohydrates	70	70	70	70
Fats	10	10	10	10
Total calories (kcal / 100 g diet)	385	385	385	385

Supplemental Table 2

Primer Sequences Used for qRT-PCR Analysis

	Forward Primer (5'-3')	Reverse Primer (5'-3')
PPARα	GTCCTCAGTGCTTCCAGAGG	GGTCACCTACGAGTGGCATT
PPARγ	GCATTTCTGCTCCACACTATGA	TCGCACTTTGGTATTCTTGG
SCD1	CCGAAGAGGCAGGTGTAGAG	TTCTTACACGACCACCACCA
CYP7A1	TGGGCATCTCAAGCAAACAC	TCATTGCTTCAGGGCTCCTG
SREBP-1C	GATCAAAGAGGAGCCAGTGC	TAGATGGTGGCTGCTGAGTG
HMGCR	GGACCAACCTTCTACCTC	CCATCACAGTGCCACATAC
G6PC	TCTGTCCCGGATCTACCTTG	GTAGAATCCAAGCGCGAAAC
PEPCK	TAGGAGCAGCCATGAGAT	CGAAGTTGTAGCCGAAGA
GCK	TCCCTGTAAGGCACGAAGAC	ACGATGTTGTTCCCTTCTGC
TLR2	CACCGGTCAGAAAACAACTTACC	CAAGATCCAGAAGAGCCAAAGAG
TNFα	AGGCACTCCCCCAAAAGAT	CAGTAGACAGAAGAGCGTGGTG
MCP-1	GTGCTGACCCCAAGAAGGAA	GTGCTGAAGACCTTAGGGCA
YWHAZ	TTCTTGATCCCCAATGCTTC	TTCTTGTCATCACCAGCAGC

Supplemental Figure 1



Supplemental Figure 1. A) Daily food intake. B) Daily energy intake. Data are expressed as mean ± SEM and compared with one-way analysis of variance (ANOVA) by Tukey's multiple comparison posttests.