**S2 Table. Composition of the experimental diets**

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|  | MCD diet | Western diet\* |
| Reference | MP Biomedicals, #960439 | TD.120330, 22% HVO + 0.2% cholesterol diet, Teklad Research |
| Formula (g/Kg) | Sucrose (455.3)Corn Starch (200.0)Corn Oil (100.0)Alphacel Non-Nutritive Bulk (30.0)Mineral Mix, AIN-76, (35.0)Calcium Phosphate, dibasic (3.0)L-Alanine (3.5)L-Arginine HCl (12.1)L-Asparagine Monohydrate (6.0)L-Aspartic Acid (3.5)L-Cystine (3.5)L-Glutamic Acid (40.0)Glycine (23.3)L-Histidine HCl (4.5)L-Isoleucine (8.2)L-Leucine (11.1)L-Lysine HCl (18.0)L-Phenylalanine (7.5)L-Proline (3.5)L-Serine (3.5)L-Threonine (8.2)L-Tryptophan (1.8)L-Tyrosine (5.0)L-Valine (8.2)Vitamin E, DL-alpha tocopherol acetate (250 IU/g) (0.484)Vitamin A Palmitate (250,000 IU/g) (0.0792)Vitamin D3, cholecalciferol (400,000 IU/g) (0.0055)Ethoxyquin (0.02)Biotin (0.0004)Calcium Patothenate (0.0661)Folic acid (0.002)Inositol (0.1101)Menadione (0.0496)Niacin (0.0991)p-Aminobenzoic acid (0.1101)Pyridoxine HCl (0.0220)Riboflacin (0.022)Thiamine HCl (0.022)Vitamin B12 (0.1% trit.) (0.0297)Ascorbic acid (1.0166)Corn Starch (3.4503) | Casein (230.0)DL-Methionine (3.4)Sucrose, fine ground (211.7098)Corn Starch (80.0)Maltodextrin (140.0)Vegetable Shortening, hydrogenated (Primex) (220.0)Soybean Oil (10.0)Cholesterol (2.0)Cellulose (50.0)Mineral Mix, AIN-93G-MX (94046) (46.0)Calcium Phosphate, dibasic (3.3)Niacin (0.042)Calcium Pantothenate (0.0224)Pyridoxine HCl (0.0098)Thiamin HCl (0.0084)Riboflavin (0.0084)Folic Acid (0.0028)Biotin (0.0003)Vitamin B12 (0.1% in mannitol) (0.035)Vitamin E, DL-alpha tocopherol acetate (500 IU/g) (0.1)Vitamin A Palmitate (500,000 IU/g) (0.0112)Vitamin D3, cholecalciferol (500,000 IU/g) (0.0028)Vitamin K1, phylloquinone (0.0011)Choline Bitartrate (3.3)TBHQ, antioxidant (0.046) |

\*This diet is a modification of TD.06303 to add 0.2% cholesterol. We also add 42 g/L glucose and fructose in the drinking water (55% fructose and 45% glucose, w/w).