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| **Supplementary Table S1**. Composition of experimental diets |  |
| [1](#_ENREF_38)**Ingredient** | **Control diet (g/Kg)** | **CLA diet (g/Kg)** |
| **Casein** | 200 | 200 |
| **L-Cystein** | 3 | 3 |
| **Corn starch** | 397.5 | 397.5 |
| **Maltodextrin** | 132 | 132 |
| **Sucrose** | 100 | 100 |
| **Cellulose** | 50 | 50 |
| **Mineral mix (AIN-93)1** | 35 | 35 |
| **Vitamin mix (AIN-93)2** | 10 | 10 |
| **Choline bitartrate** | 2.5 | 2.5 |
| **Tert-butylhydroquinone3** | 0.014 | 0.014 |
| **Soybean oil** | 70 | 60 |
| **cis9, trans11/trans10, cis12 CLA (50:50)** | 0 | 10 |

1 Per kg diet: 3 g nicotinic acid, 1.6 g calcium pantotenate, 0.7 g pyridoxine HCl, 0.6 g thiamin HCl, 0.6 g riboflavin, 0.2 g folic acid, 0.02 g D-biotin, 2.5 g vitamin B-12 (0.1% in mannitol), 15 g d,l- tocopheryl acetate (500 IU/g), 0.8 g vitamin A palmitate (500,000 IU/g), 0.2 g cholecalciferol (500,000 IU/g), 0.075 g vitamin K (phylloquinone), and 974.705 g sucrose.

2 Per kg diet: 357 g calcium carbonate, 196 g potassium phosphate monobasic, 70.78 g potassium citrate, 74 g sodium chloride, 46.6 g potassium sulfate, 24.3 g magnesium oxide, 6.06 g ferric citrate, 1.65 g zinc carbonate, 0.63 g manganous carbonate, 0.31 g cupric carbonate, 0.01 g potassium iodate, 0.01025 g sodium selenate, 0.00795 g ammonium paramolybdate, 1.45 g sodium meta-silicate, 0.275 g chromium potassium sulfate, 0.0174 g lithium chloride, 0.0815 g boric acid, 0.0635 g sodium fluoride, 0.0318 g nickel carbonate, hydroxide, tetrahydrate, 0.0066 g ammonium vanadate, and 220.716 g sucrose.

3Antioxidant