**Supplementary information**

**Table S1**

**Dose dependent and strain-dependent anti-obesity effects of *Lactobacillus sakei* in a diet induced obese murine model**

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**Supplementary Table S1.** Detailed analyticalcomposition of the low-fat (LFD) and high-fat (HFD) diets used in this study. (A) Low fat diet (38057; Purina Laboratory Rodent Diet); (B) High fat diet (D12492; Research Diets Inc., New Brunswick, NU, USA).

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|  **A. Low fat diet (LFD; Purina Laboratory Rodent Diet 38057)** |
| Nutrients | Calories (%) |
|  | Fat (ether extract) 12.41%, Protein 24.52%, Carbohydrate 63.07%Total 3,940 Kcal/Kg |
| Protein g (%) | 20 g% | Arginine 1.26 g%, Cystine 0.37 g%, Glycine 0.87 g%,Histidine 0.5 g%, Isoleucine 0.82 g%, Leucine 1.47 g%,Lysine 1.01 g%, Methionine 0.33 g%, Phenylalanine 0.98 g%,Tyrosine 0.63 g%, Threonine 0.72 g%,Tryptophan 0.25 g%, Valine 0.91 g% |
| Fat g (%) | 4.5 g% | Linoleic Acid 1.10 g%, Linolenic Acid 0.12 g%,Arachidonic Acid 0.02 g%, Omega-3 Fatty Acids 1.11 g% |
| Fiber g (%) | 3.7 g% | Fiber (Crude) 3.7 g% |
| Minerals | - | Ash 7.25 g%, Calcium 1.2 g%, Phosphorus 0.62 g%,Phosphorus (non-phytate) 0.4 g%, Potassium 0.82 g%,Magnesium 0.16 g%, Sulfur 0.22 g%, Sodium 0.34 g%,Chlorine 0.47 g%, Fluorine 21.38 ppm, Iron 112.93 ppm,Zinc 128.85 ppm, Manganese 95.49 ppm,Copper 22.74 ppm, Cobalt 0.76 ppm, Iodine 1.42 ppm,Chromium 0 ppm, Selenium 0.32 ppm |
| Vitamins | - | Vitamin K 6.69 ppm, Thiamin Hydrochloride 11.02 ppm, Riboflavin 11.57 ppm, Niacin 217.7 ppm, Pantothenic Acid 88.72 ppm, Choline Chloride 3447.96 ppm,Folic Acid 13.6 ppm, Pyridoxine 11ppm, Biotin 0.15 ppm, B12 41 ppm, Vitamin A 28.03 IU/kg, Vitamin D3 (added) 4 IU/kg, Vitamin E 100 IU/kg |
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**B. High fat diet (HFD; Research Diets** **D12492) (Research Diets Inc., New Brunswick, NU, USA)**

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| Calories (%) | Ingredients (g) |
| Protein | Fat  | Carbohydrate | Fiber | Minerals/Vitamins/Dye |
| Fat | 60.00% | Casein, Lactic, 30 Mesh 200gCystine, L 3g | Lard 245gSoybean Oil, USP 25g | Lodex 10 3gSucrose, Fine Granulated 72.8g | Solka Floc, FCC200 50g | S10026B 50gCholine Bitartrate 2gV10001C 1gDye, Blue FD&C #1, Alum. Lake 35-42% 0.05g |
| Carbohydrate | 20.00% |
| Protein | 20.00% |
| Total | 100% | 203 | 270 | 197.8 | 50 | 53.05 |
|  |  | 773.85 (g) |