Fig. S1 Effects of dietary porcine bile acids supplementation on serum high-density lipoprotein cholesterol to low-density lipoprotein cholesterol ratio of laying hens. BA = bile acid; HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol. Each box represents the mean value of 6 hens each treatment (n = 6). Whiskers represent maximum and minimum. *, $P < 0.05$.
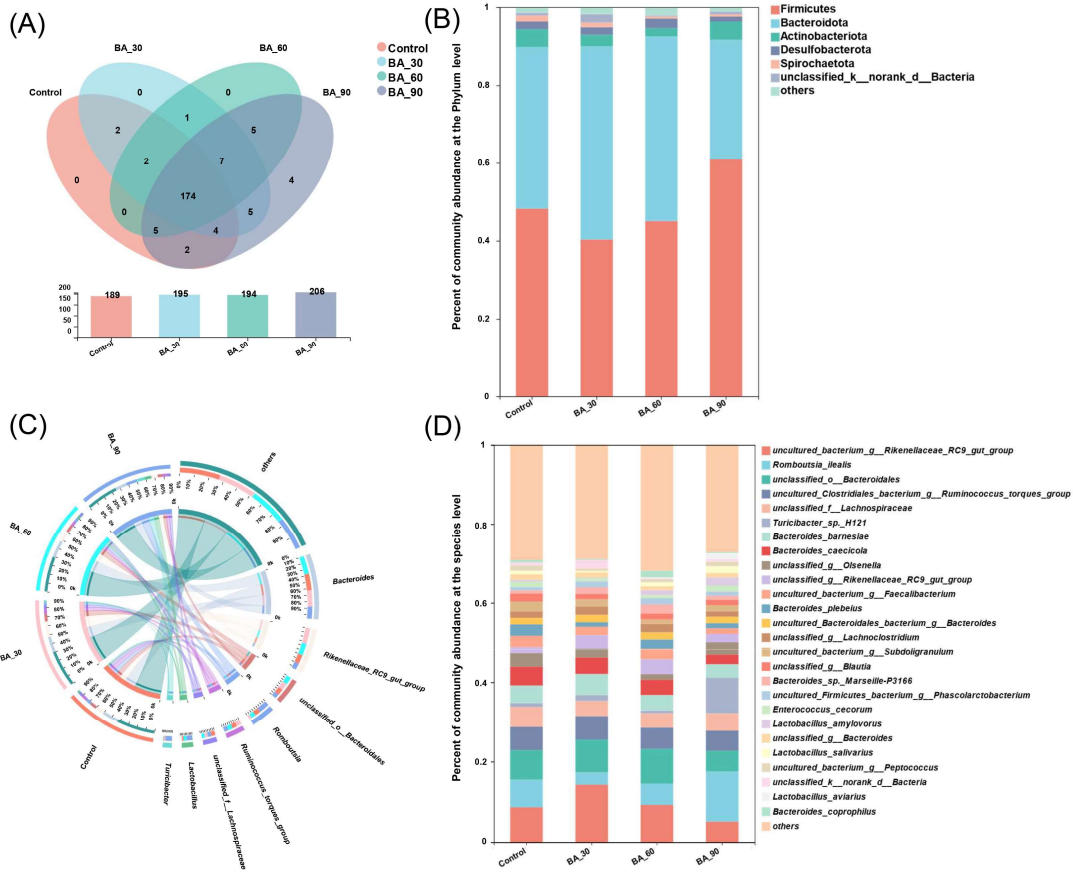
Fig. S2 Effects of dietary porcine bile acids supplementation on cecal microbiota compositions of laying hens. BA = bile acid. (A) Venn diagram at the genus level. (B) Percent of community abundance at the phylum level. (C) Circos diagram at the genus level. The outer color band represents microbiota, the inner color band represents different treatments, and the length represents the distribution proportion of the sample in a certain kind of bacteria. (D) Percent of community abundance at the species level.

Fig. S3 Procrustes analysis based on PCoA at the genus level of porcine bile acids treatments and serum lipid indexes. The goodness-of-fit statistics of the two ranking results were expressed by M^2. The *P*-value of M^2 was from 999 Monte-Carlo simulations.