

Supplementary Materials:

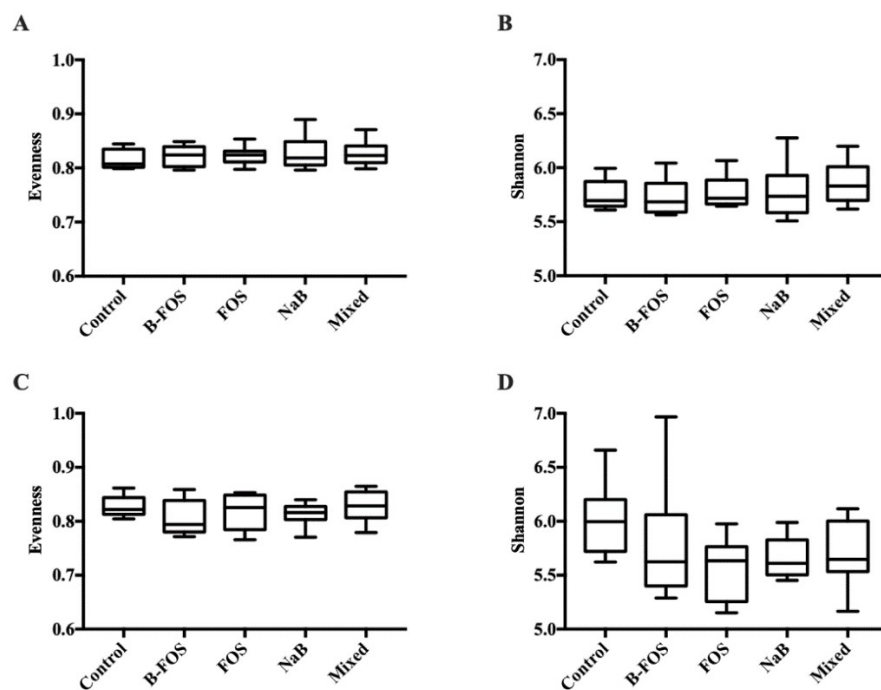


Figure S1. Comparison of alpha diversity indices amongst groups before and after 4-week oral administration. Alpha diversities of microbial communities are shown as evenness at 0 week (A) and the fourth week (C) and richness at 0 week (B) and the fourth week (D). Significance was accepted as $P < 0.05$ ($n = 8$).

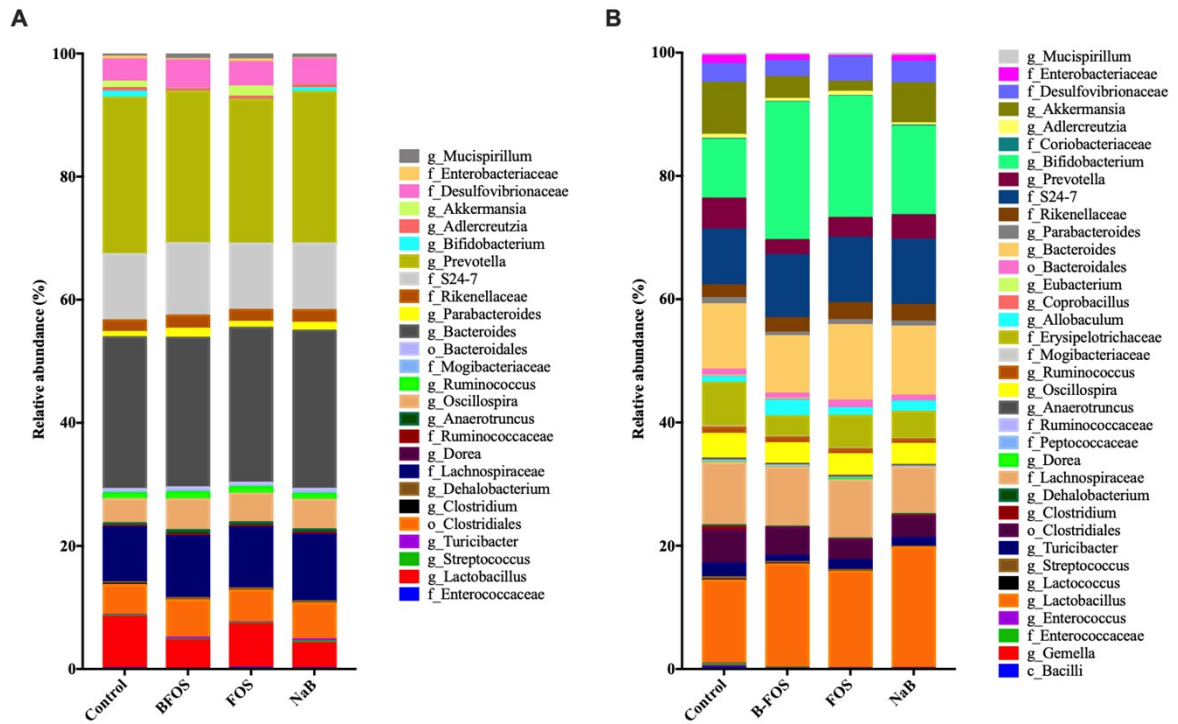


Figure S2. Microbiota composition of average relative abundance of each group at genus level before (A) and after 4-week treatments (B). Taxa with relative abundance below 0.1% were excluded prior to analyses. (n = 8).

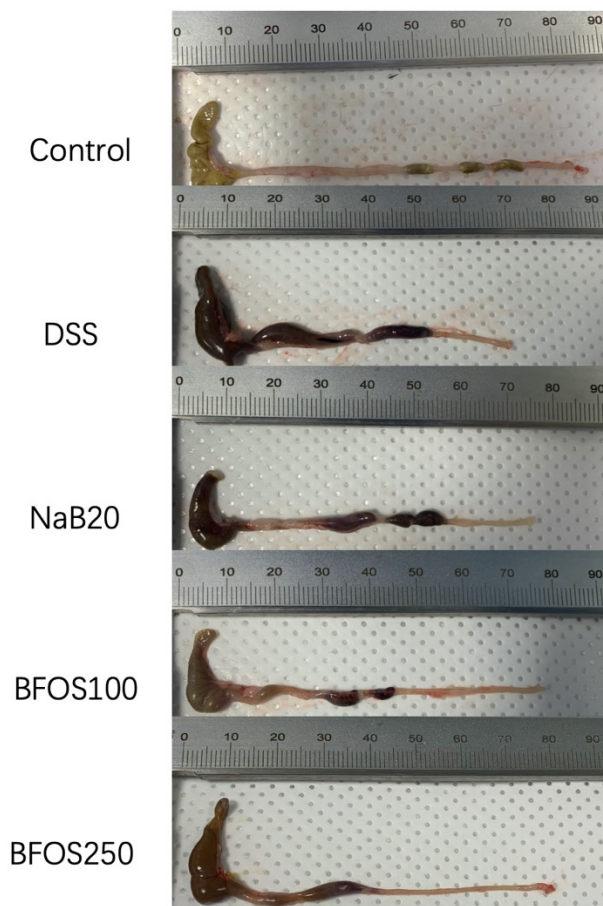


Figure S3. Macroscopic appearance of colon in the DSS-induced colitis of mice.