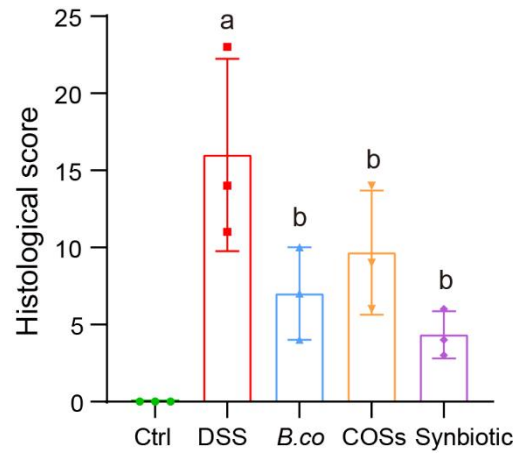


Supplementary Figure 1. The count of bacteria of *B. coagulans* FCYS01 with COSs as carbon source. YP: Yeast extract 10 g /L and Tryptone 20 g /L; COSs +YP: COSs 10 g /L, Yeast extract 10 g /L and Tryptone 20 g /L.



Supplementary Figure 2. Histological score calculated after microscopic analyses of the colons used for immunohistochemical analysis. Data were shown as means \pm SEM. Data with different superscript letters (a and b) were significantly different ($p < 0.05$) according to one-way ANOVA followed by Tukey's test. Ctrl: healthy control; DSS: DSS-treated group; *B. co*, COSs and Synbiotic: supplementation of *B. coagulans* spores, COSs or spores + COSs, respectively.