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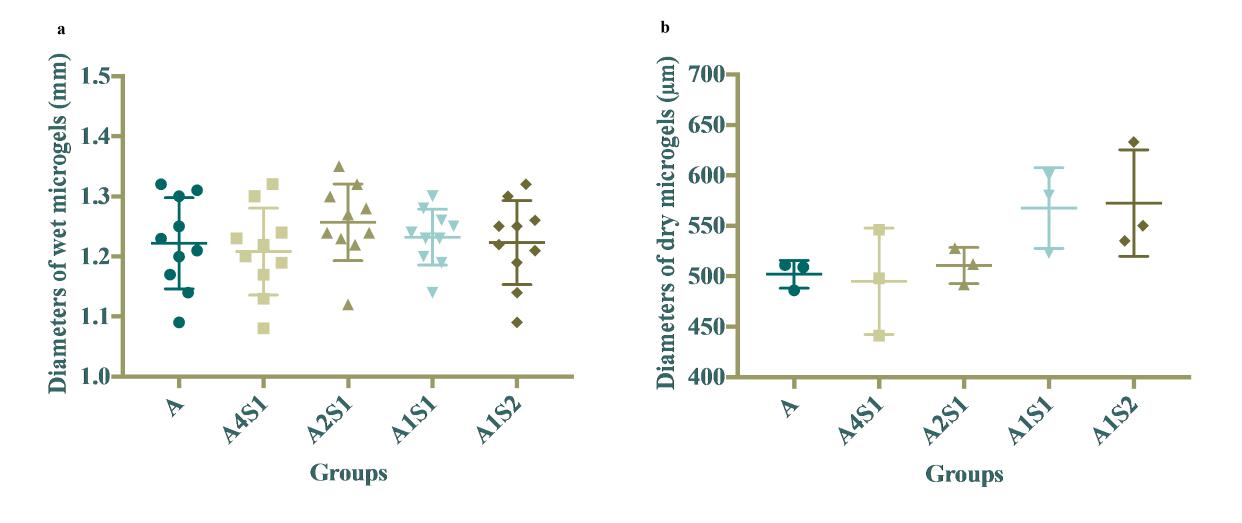


Fig. S1. Diameters of microgels. a. Diameters of wet microgels by optical microscope. b. Diameters of dry microgels by SEM.



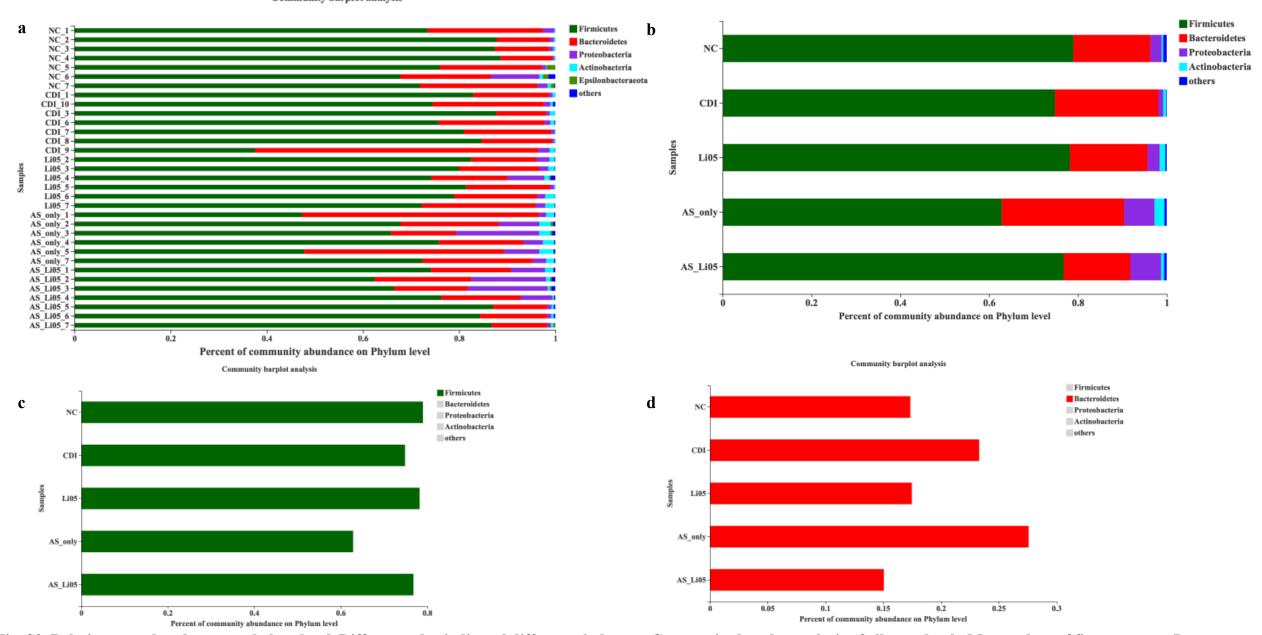


Fig. S2. Relative taxa abundance on phylum level. Different color indicated different phylum. a. Community barplot analysis of all samples. b. Mean values of five groups. c. Percentage of *Firmicutes* in five groups. d. Percentage of *Bacteroidetes* in five groups.

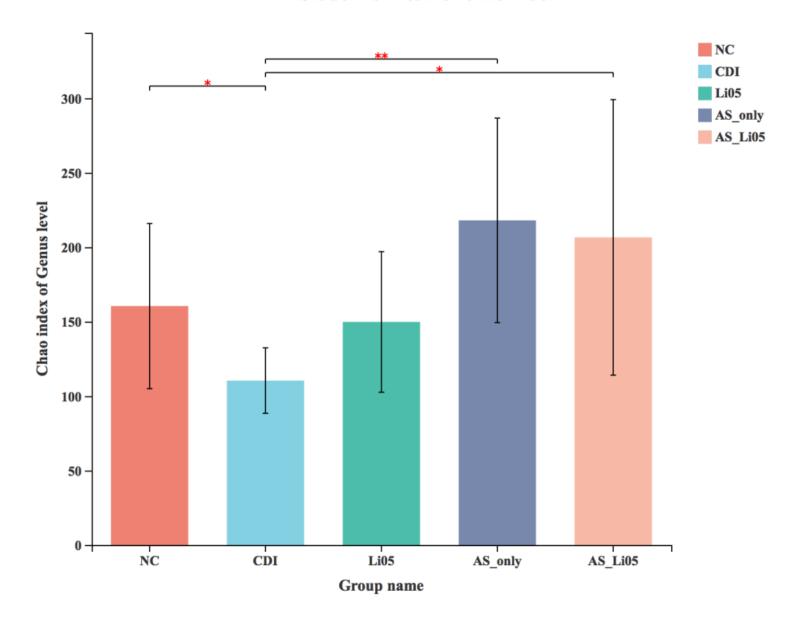


Fig. S3. Mean chao index of genus level. * p^{**} ,0.05>p0.0>1.