



**Figure S1:**  $\alpha$ -diversity of different groups after incubation in rumen 0.5 h (A), 4 h (B), 12 h (C) and 24 h (D) by chao1 and shannon index in genus level. Con: no additive, control; MA: added microecological agents; MA + M: a combination of microecological agents and molasses; Data were mean ± SEM. *P* values were determined using the t-test. \**P*≤0.05, \*\**P*≤0.01.