



Supplementary Fig. S4, Thin-layer chromatography analysis of free sugars in the culture supernatants of ovomucin- and PGM-supplemented media after 24 h incubation.

Culture supernatants of *Akkermansia muciniphila* (Am) and *Bifidobacterium bifidum* (Bb) in basal media supplemented with 0.5% mucins were separated in a solvent of 1-butanol: acetic acid: water = 2/1/1 (v/v/v) with monosaccharide standards and a control with no bacteria (Con). Sugars were stained with diphenylamine-aniline reagent (100 mL acetone, 1 g diphenylamine, 1 mL aniline, 10 mL phosphoric acid) and colored by heating.