



**Figure S1.** *In vitro* stability of bioluminescence. (a) Stability of plasmid pNZPldhFfluc in *L. plantarum* 423 Fluc and plasmid pNZSTldhFfluc in *E. mundtii* ST4SA Fluc after subculturing for 7 days with replica plating on non-selective (antibiotic-free) and selective (Cm) media. The percentages of Cm-resistant colonies of three independent cultures of each respective strain are shown. Bioluminescent colonies of (b) *L. plantarum* 423 Fluc and (c) *E. mundtii* ST4SA Fluc after 7 days of subculture in antibiotic-free MRS media.