Supplementary materials:

Figure S6. Soluble plantain NSP reduces *Clostridioides difficile* binary toxin mediated inflammation, and cytotoxicity in Intestine-407 cells. Cell monolayers were treated with *C. difficile* binary toxin (CDT), at 10 and 100 ng/mL for 24h, in the absence (black bars) or presence of 10 mg/mL plantain NSP (white bars) or oat NSP (grey bars). Media harvested from cells was analysed for release of **(A)** IL-8 (by ELISA) and **(B)** cytotoxicity marker adenylate kinase (by Toxilight bioassay). Significant increases in inflammation and cytotoxicity in CDT-treated cells versus untreated controls; #P < 0.01, ##P < 0.001, ###P < 0.001; one-way ANOVA, with Dunnett's post-hoc test. Plantain NSP significantly reduced CDT-mediated actions on Intestine-407 cells; #P < 0.05, #P < 0.01, #P < 0.001). No similar blockade was seen with oat NSP. N=2 experiments, n=3 replicates. No significant changes were seen in protein levels in cell lysates measured by bicinchoninic acid (BCA) assay.



