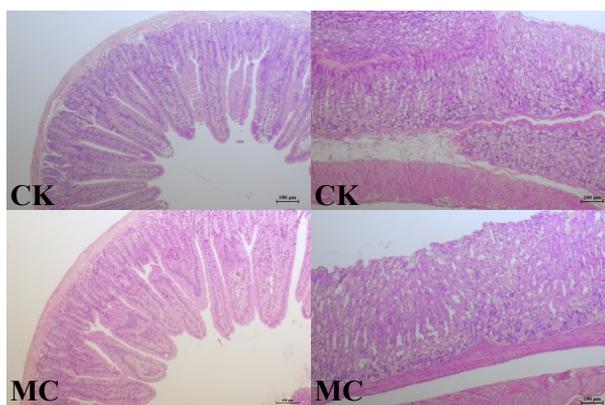


Table S 1. The monosaccharides components of FUC and LA. The chromatographic column: ZORBAX EclipseXDB-C18; Acetonitrile was used as the mobile phase (30°C/250 nm/10μL).

Name	Total contents of each component (μg/mg)							Proportion (%)	
	Mannose	D-Glucosamine hydrochloride	Rhamnose	Glucuronic Acid	Galactose	D-Galactosamine HCl	Glucose	Galactose	
FUC	594.807	5.021	0.002	3.972	7.186	0	0	2.720	7.324
LA	4.731	0	0	0	35.147	0	26.558	38.295	0

Table S2. The average weight of mice in the control check and model control groups were shown in this table. (Mean ± SD) The food intake of each mouse= 24-hour food intake per cage/ number of mice in the cage. There was no significant difference in body weight and food intake between the two groups before and after loperamide intervention.

	Body weight(g) (day 1)	Body weight(g) (day 7)	Food intake(g) (day 1)	Food intake(g) (day 7)
Control check group	19.68 ± 0.25	21.74 ± 0.93	4.52	4.00
Model control group	19.76 ± 0.16	21.60 ± 0.80	4.17	3.88



FigS. 1 Representative H&E-stained duodenum (left) and stomach (right) sections were observed at 100 ×. After observation, the gastrointestinal structure of mice in MC group did not change significantly compared with that in CK group.

