

Supplementary information

Manuscript Title: Effect of *Bacillus coagulans* on DSS-Induced Ulcerative Colitis in NMRI Mice Offspring Exposed to a Maternal High-Fat Diet

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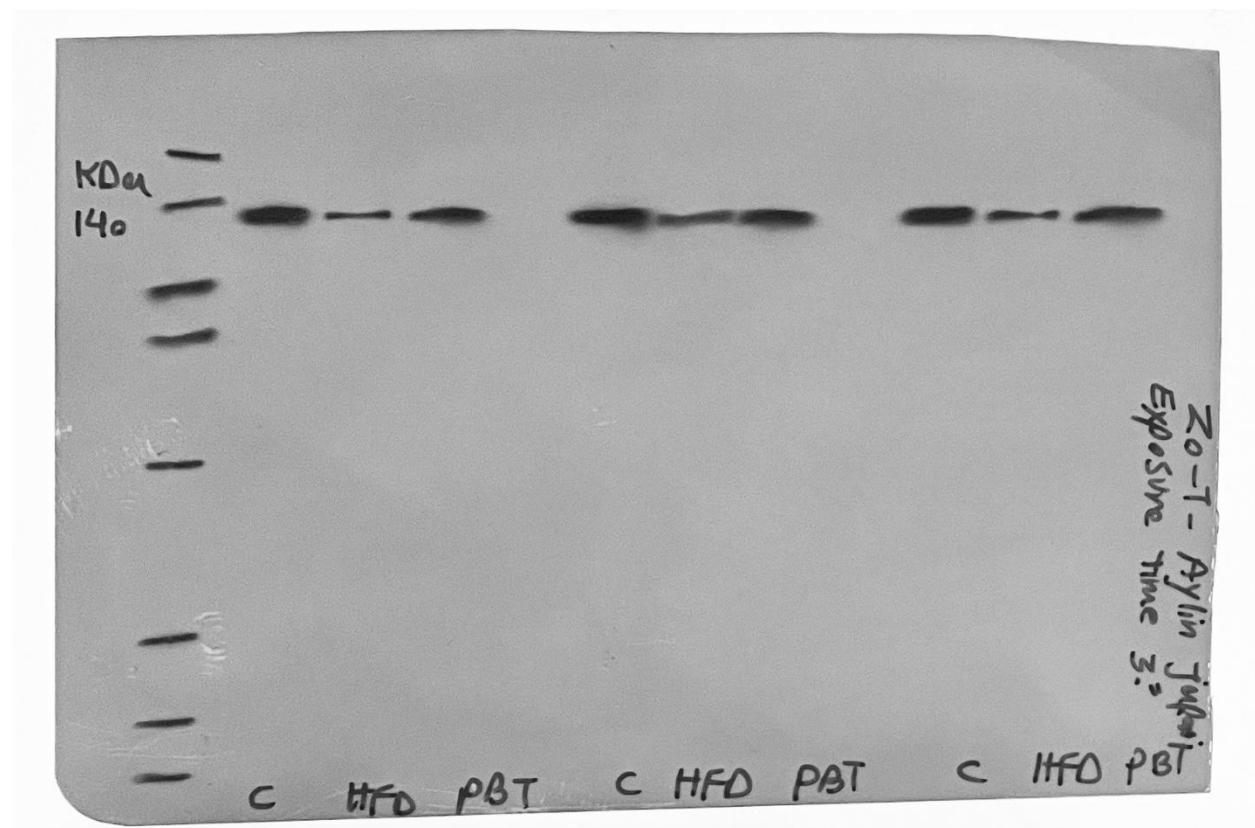
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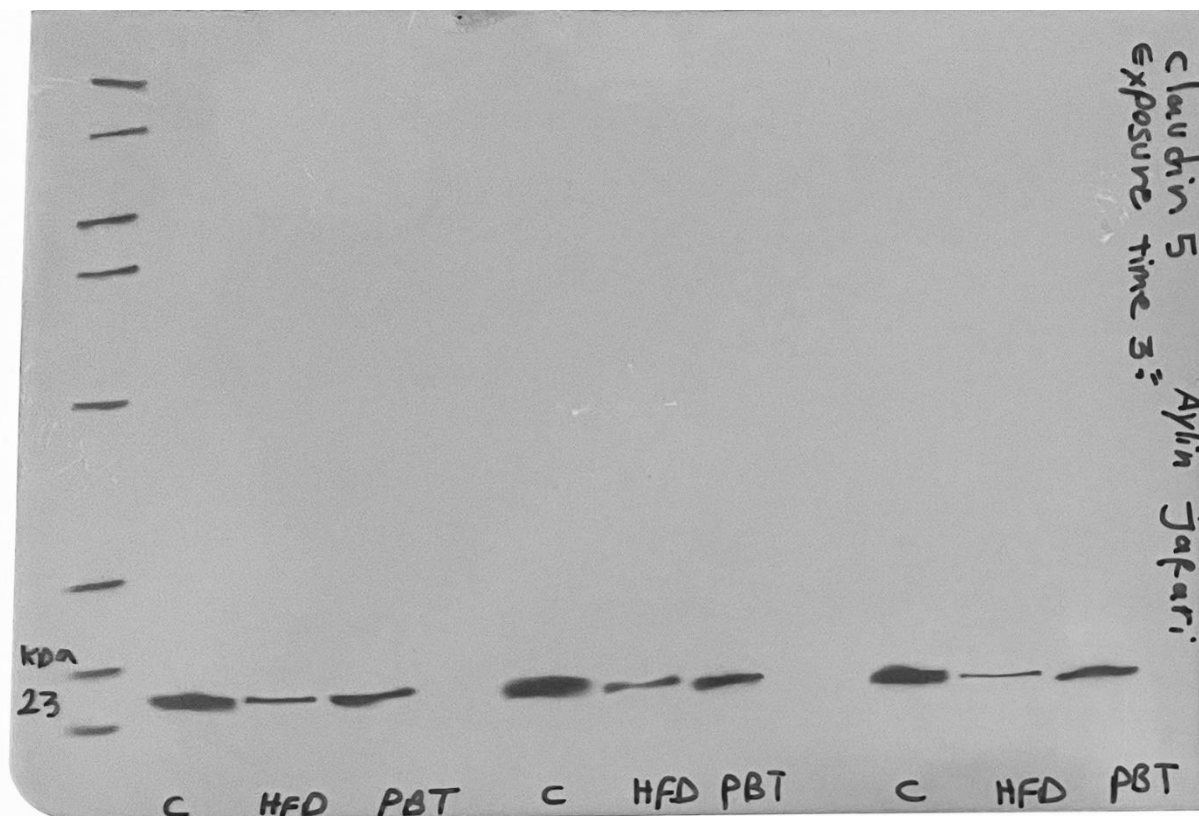
Supplementary Fig. S1 online Uncropped Western blot images for tight junction proteins and proliferation marker.

a, ZO-1 (~140 kDa). **b**, Claudin-5 (~23 kDa). **c**, MUC-2 (isoforms ~130/110 kDa). **d**, Ki-67 (~358 kDa). **e**, β -actin (42 kDa, loading control). The molecular weight ladder is on the left-most side of the membrane. The bands used for densitometric analysis in Fig.5 are the three lanes immediately to the right of the ladder. Each of the three lanes represents an individual biological replicate (n=3). Lane labels: C, Maternal Control Diet (MCD); HFD, Maternal High-Fat Diet (MHFD); PBT, MHFD + *B. coagulans*.

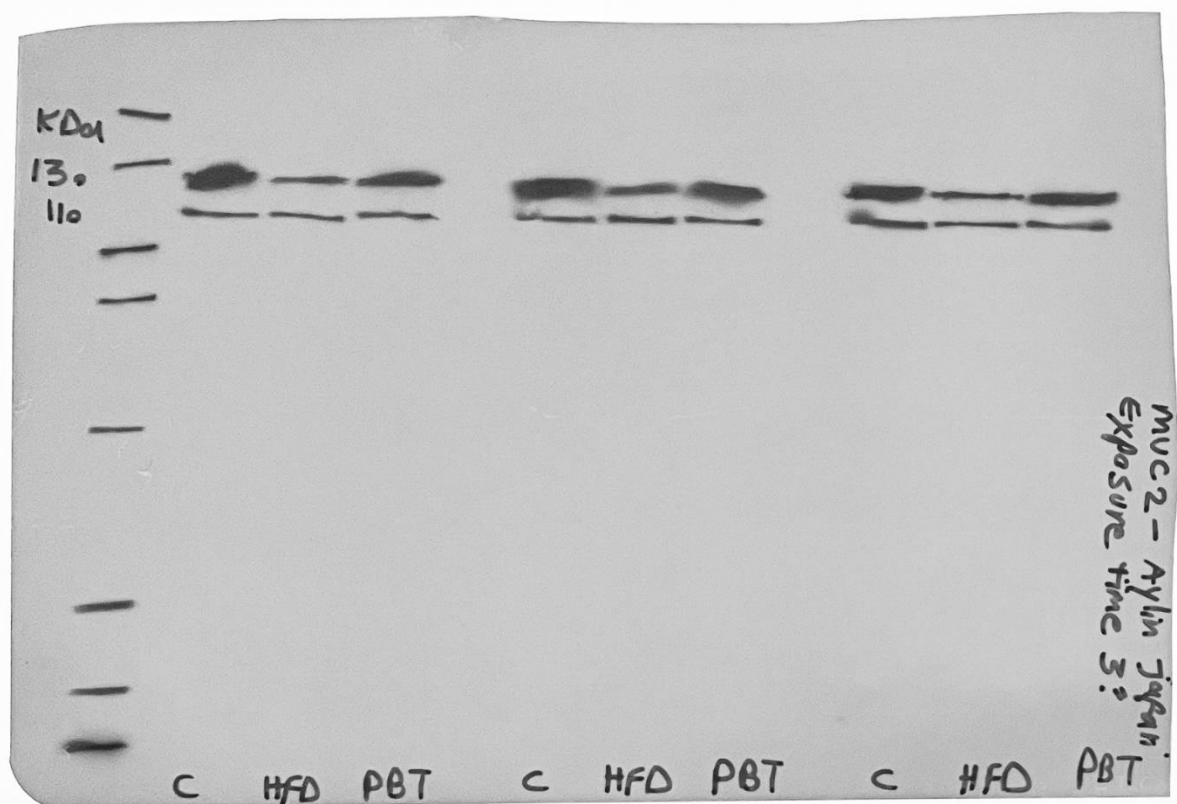
(a)



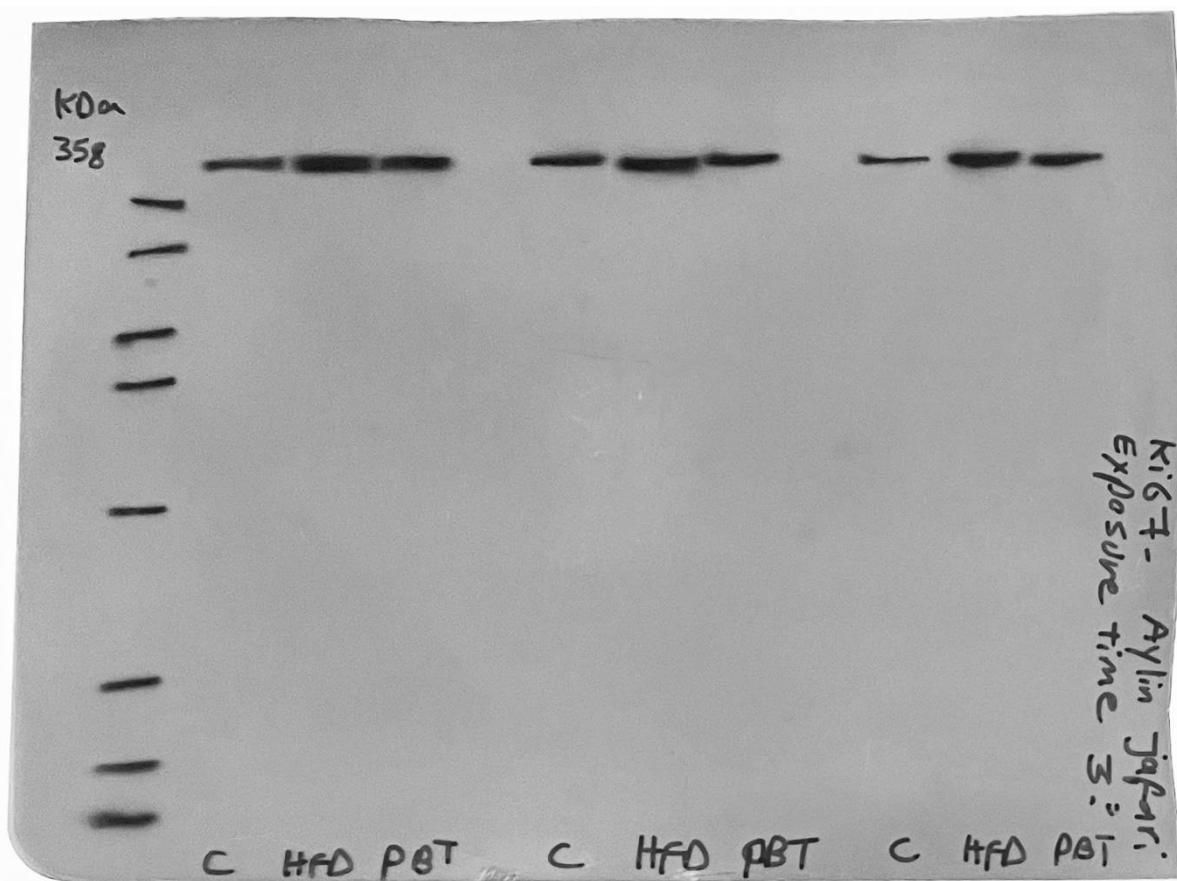
(b)



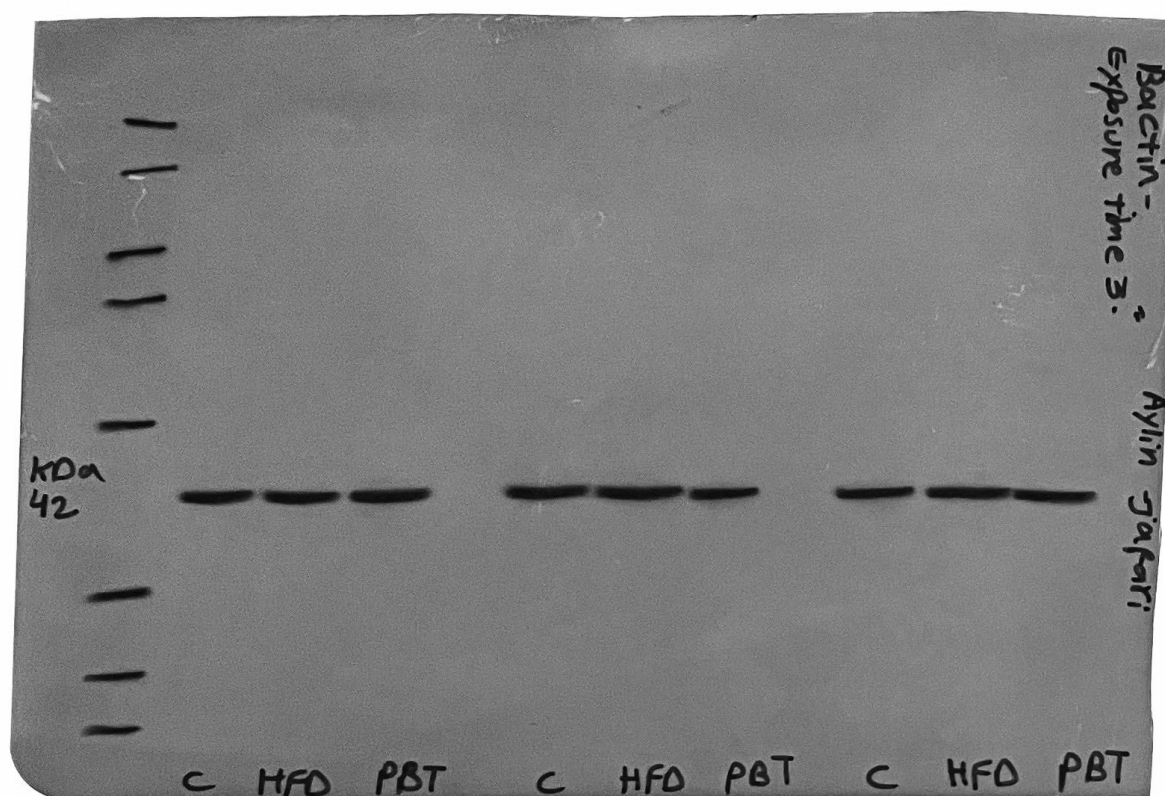
(c)



(d)



(e)



Supplementary Table S1 online Nutritional composition of normal chow diet

Nutritional Composition of the Normal Chow Diet	
Crude Protein%	21.6
Crude Fat%	3.66
Carbohydrates%	47-50
Crude Fiber%	3.20
Ash%	8.92

Calcium%	1.01
Phosphorus%	0.52
Salt%	0.49
Moisture%	9.98
Lysine%	1.15-1.2
Methionine%	0.33-0.37
Methionine+ Cysteine%	0.63-0.65
Threonine%	0.72-0.75
Tryptophan%	0.25-0.27
Energy kcal/kg	2850-2900