

Supplementary Information

Butyrylated starch protects mice from DSS-induced colitis:
combined effects of butyrate release and prebiotic supply

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Table S1. Components of experimental mouse diet.

Component	Basic Diet		BS-0.6%		BS-2.4%	
	Gm%	Kcal%	Gm%	Kcal%	Gm%	Kcal%
Butyrylated Starch	0	0	24	60	6	15
Casein	200	800	200	800	200	800
L-Cystine	3	12	3	12	3	12
Corn Starch	540	2160	516	2064	534	2136
Sucrose	100	380	100	380	100	380
Cellulose, BW200	50	0	50	0	50	0
Soybean Oil	50	450	50	450	50	450
Lard	0	0	0	0	0	0
Mineral Mix S10026	10	0	10	0	10	0
DiCalcium Phosphate	13	0	13	0	13	0
Calcium Phosphate	5.5	0	5.5	0	5.5	0
Potassium Citrated·H2O	16.5	0	16.5	0	16.5	0
Vitamin Mix V10001	10	40	10	40	10	40
Choline Bitartrate	2	0	2	0	2	0
FD&C Yellow Dye #5	0.05	0	0	0	0	0
FD&C Red Dye #40	0	0	0.05	0	0	0
FD&C Blue Dye #1	0	0	0	0	0.05	0
Total	1000.05	3842	1000.05	3776	1000.05	3803

Table S2. Primer sequences of RT-PCR.

Transcript	Forward primer	Reverse primer
MPO	CGTGTCAAGTGGCTGTGCCTAT	AACCAGCGTACAAAGGCACGGT
iNOS	GAGACAGGGAAGTCTGAAGCAC	CCAGCAGTAGTTGCTCCTCTTC
Cadherin-1	TCATGAGCGTGCCCCAGTAT	CGGCTGCCTTCAGGTTTTTCAT
ZO-1	CTTCTCTTGCTGGCCCTAAAC	TGGCTTCACTTGAGGTTTTCTG
Claudin-3	AAACCTCGCCCTTCCCAAGA	GCCCGTTTCATGGTTTGCCT
IL-6	ATCCAGTTGCCTTCTTGGGACTGA	TAAGCCTCCGACTTGTGAAGTGGT
IL-10	CGGGAAGACAATAACTGCACCC	CGGTTAGCAGTATGTTGTCCAGC
Tgf- β	CCGCAACAACGCCATCTATG	CCCGAATGTCTGACGTATTGAAG
TNF	TCTTCTCATTCCCTGCTTGTTGGC	CACTGGTGGTTTGCTACGACG
Gapdh	TGGAAGGGCTCATGACCACAG	ATCCACGACGGACACATTGG
β -actin	ACCACCATGTACCCAGGCAT	AGCTCAGTAACAGTCCGCCT