

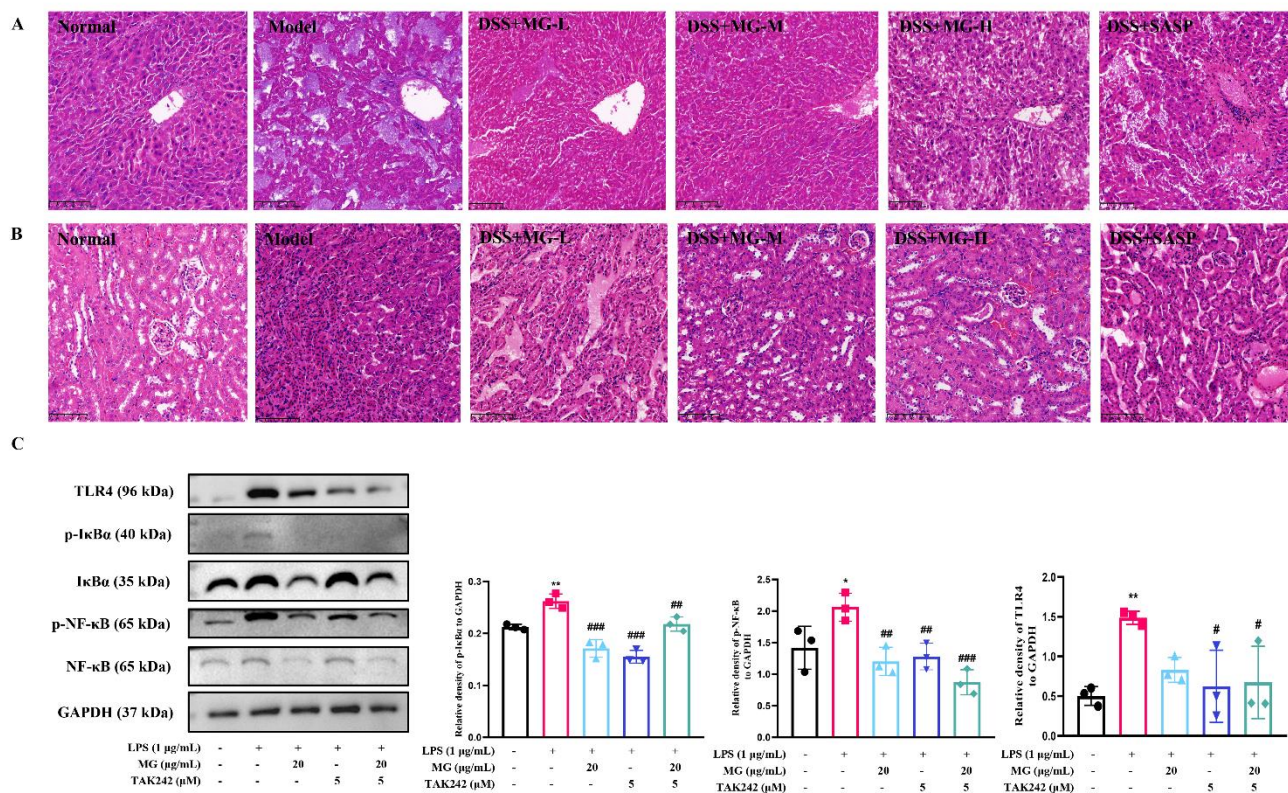
## Supplementary Materials for

# Methyl Gallate Alleviates Acute Ulcerative Colitis by Modulating Gut Microbiota and Inhibiting TLR4/NF- $\kappa$ B Pathway

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**Includes:** Figures S1, S2 and S3; Tables S1 and S2

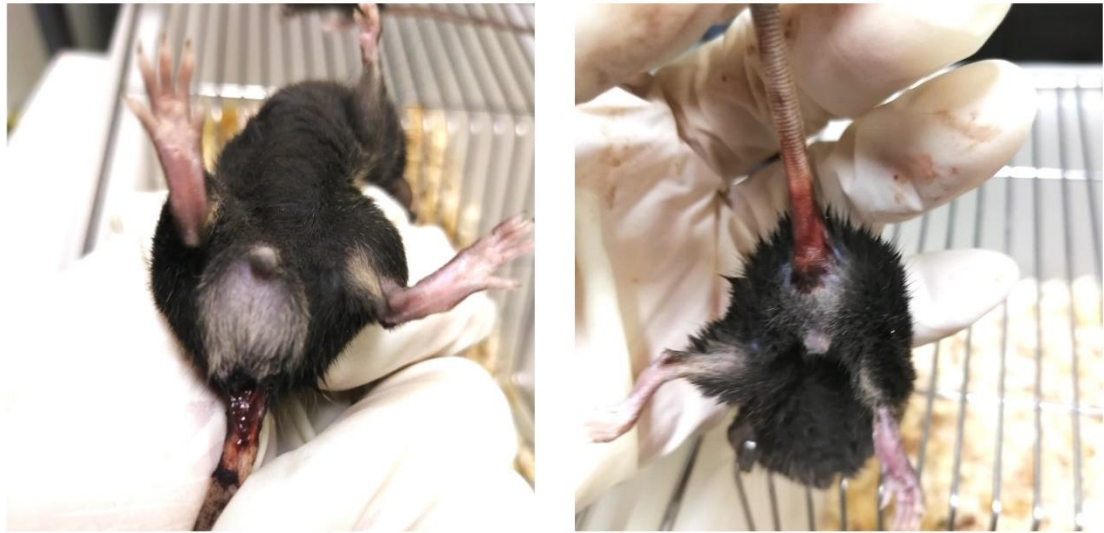
## Supplementary Figure S1



**Figure S1.** Histopathological observation of colon, liver, and kidney tissues in each group. (A, B) Representative sections H&E staining images of liver, and kidney tissue (200 $\times$ , scale bar: 100  $\mu$ m). MG and TAK242 inhibited the expression of TLR4/NF- $\kappa$ B signaling pathway in LPS-induced cells. Data were presented as the means  $\pm$  SEMs of three independent experiments. \* $p$  < 0.05, \*\* $p$  < 0.01, and \*\*\* $p$  < 0.001 vs the normal group; # $p$  < 0.05, ## $p$  < 0.01, and ### $p$  < 0.001 vs the group treated with only LPS. (C)

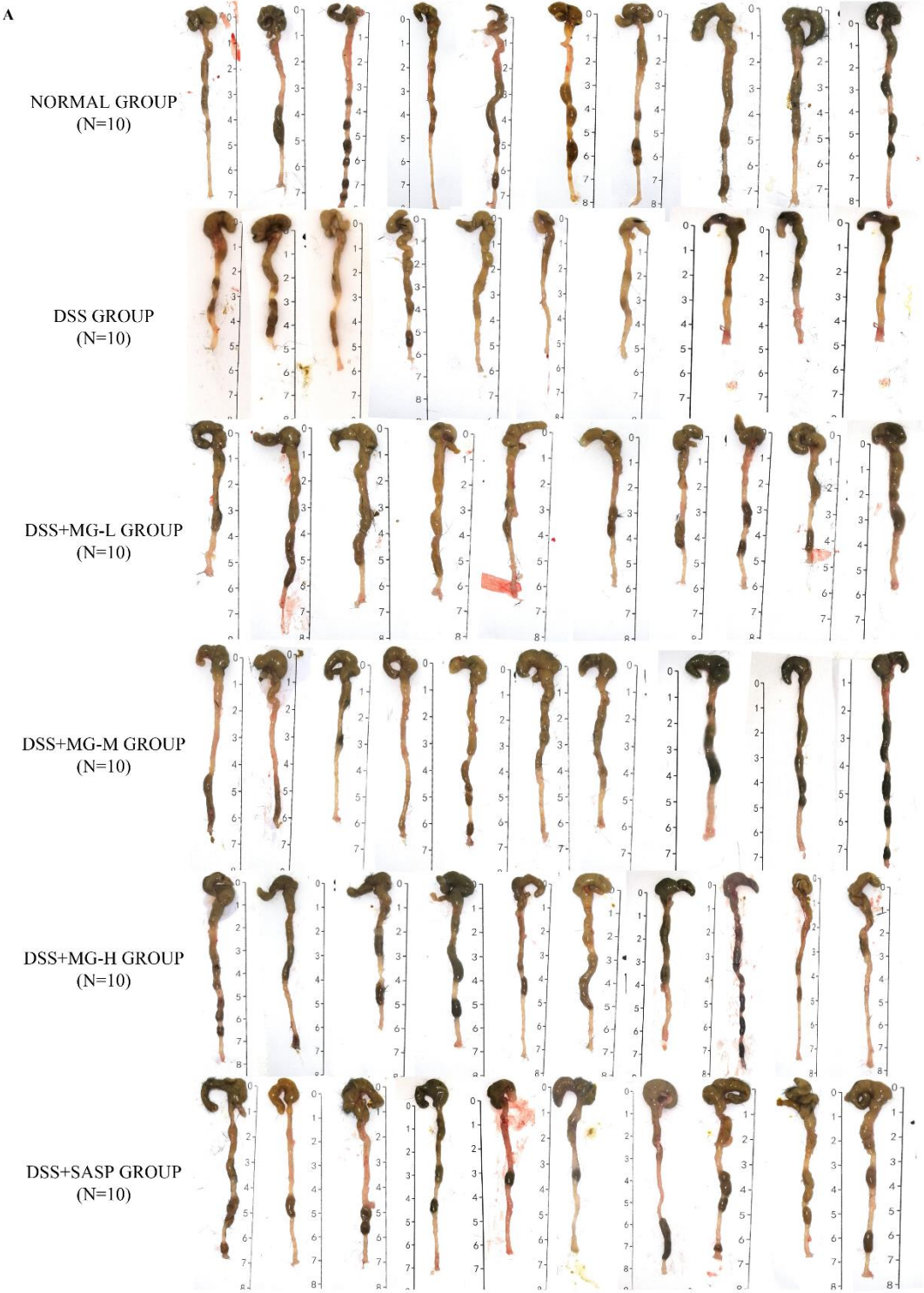
## Supplementary Figure S2

A



**Figure S2.** On the eighth day of DSS-induced modeling, hematochezia appeared in the mice. (A)

Supplementary Figure S3



**Figure S2.** Colonic tissue of mice in each group. (A)

Table S1. Disease activity index score.

Score	Weight loss (%)	Stool consistency	Occult blood
0	<0	Normal	Negative
1	1-5	Soft but still formed	+
2	5-10	Loose	++
3	10-20	Very soft and wet	+++
4	>20	Diarrhea	Gross bleeding

Table S2. Primer sequences used for qPCR amplification.

Gene name	Primer type	Primer sequence
$\beta$ -actin	Forwad	CATTGCTGACAGGATGCAGAAGG
	Reverse	TGCTGGAAGGTGGACAGTGAGG
TNF $\alpha$	Forwad	GGTGCCTATGTCTCAGCCTCTT
	Reverse	GCCATAGAACTGATGAGAGGGAG
IL-1 $\beta$	Forwad	TGGACCTTCCAGGATGAGGACA
	Reverse	GTTTCATCTCGGAGCCTGTAGTG
IL6	Forwad	TACCACTTCACAAGTCGGAGGC
	Reverse	CTGCAAGTGCATCATCGTTGTTC
IL4	Forwad	ATCATCGGCATTTTGAACGAGGTC
	Reverse	ACCTTGGAAGCCCTACAGACGA
IL10	Forwad	CGGGAAGACAATAACTGCACCC
	Reverse	CGGTTAGCAGTATGTTGTCCAGC
Arg-1	Forwad	CATTGGCTTGCGAGACGTAGAC
	Reverse	GCTGAAGGTCTCTTCCATCACC