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Manuscript title: Bacteriocins Attenuate *Listeria monocytogenes* Induced Intestinal Barrier Dysfunction and Inflammatory Response

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Supplementary Tables

Table. S1 List of primer sequences

Gene	Primer sequence	Source
RT- <i>β-actin</i> -F	GGCTGTATTCCCCTCCATCG	This study
RT- <i>β-actin</i> -R	CCAGTTGGTAACAATGCCATGT	This study
RT- <i>IL-6</i> -F	GAGAAAGGAGACATGTAACAAGAG	(Guo et al. 2022)
RT- <i>IL-6</i> -R	GCTCTGGCTTGTTCTCTCAC	(Guo et al. 2022)
RT- <i>IL-1β</i> -F	GTGGCAATGAGGATGACTTGTTT	(Guo et al. 2022)
RT- <i>IL-1β</i> -R	TTGCTGTAGTGGTCGGAG	(Guo et al. 2022)
RT- <i>TNF-α</i> -F	GGCAGTCAGATCATCTTCTCGAAC	(Guo et al. 2022)
RT- <i>TNF-α</i> -R	TGGTAGGAGACGGCGATGC	(Guo et al. 2022)
RT- <i>ZO-1</i> -F	TGATGGTGTCTACCTAATTCAACTCA	(Peng et al. 2022)
RT- <i>ZO-1</i> -R	GAACGCCAGCTACAAATATTCCAACA	(Peng et al. 2022)
RT- <i>claudin-1</i> -F	AGAACAGAGCAAGATCACTATGAGACA	(Peng et al. 2022)
RT- <i>claudin-1</i> -R	CTTTGTTGATCTGAAGTGATAGGTGGA	(Peng et al. 2022)
RT- <i>occludin</i> -F	GCACATACCTTCATGTGGCTCAG	(Peng et al. 2022)
RT- <i>occludin</i> -R	TGGAACAGAGCACAAACATGTCA	(Peng et al. 2022)
RT- <i>inlA</i> -F	GAATGTAACAGACACGGTCTCAC	(Qiao et al. 2022)
RT- <i>inlA</i> -R	TCCCTAATCTATCCGCCTGAAG	(Qiao et al. 2022)
RT- <i>inlB</i> -F	CGAAAGTACAAGCGGAGACTATC	(Qiao et al. 2022)
RT- <i>inlB</i> -R	GTTTCTGCAAAAGCATCATCTG	(Qiao et al. 2022)
RT- <i>actA</i> -F	TAGCGTATCACGAGGAGG	(Qiao et al. 2022)
RT- <i>actA</i> -R	TTTTGAATTTCATATCATTCACC	(Qiao et al. 2022)
RT- <i>prfA</i> -F	ATGAACGCTCAAGCAGAAG	(Qiao et al. 2022)
RT- <i>prfA</i> -R	GTTTTGGTTTTATCCCGTTAGTT	(Qiao et al. 2022)
RT- <i>plcA</i> -F	TCGGACCATTGTAGTCATCTTG	(Qiao et al. 2022)
RT- <i>plcA</i> -R	TCACGCAAATTCGGCATGC	(Qiao et al. 2022)
RT- <i>plcB</i> -F	CGCAGCTCCGCATGATATT	(Qiao et al. 2022)
RT- <i>plcB</i> -R	TTATCCGCGGACCAACTAAG	(Qiao et al. 2022)

Table S2 MIC of bacteriocins against *L. monocytogenes*

bacteriocin	nisin	enterocin Gr17	plantaricin RX-8
MIC (μg/mL)	16	16	16

Table S3 The scientific names list

Abbreviation	Full name
Caco-2 cells	Human colorectal adenocarcinoma cells
CCK-8	Cell counting kit-8
DMEM	Dulbecco's modified eagle medium
IL-6	Interleukin-6
IL-1 β	Interleukin-1 beta
LDH	Lactate dehydrogenase
MAPK	Mitogen-activated protein kinases
MRS	De Man, Rogosa and Sharpe broth
MIC	Minimum inhibitory concentration
NF- κ B P65	Nuclear factor kappa B P65
NF- κ B p-P65	Nuclear factor kappa B phosphorylated P65
P38 MAPK	P38 Mitogen-activated protein kinase
p-P38 MAPK	phosphorylated P38 Mitogen-activated protein kinase
PBS	Phosphate buffered saline
RT-qPCR	Quantitative real-time polymerase chain reaction
TBST	Tris-buffered saline with tween 20
TEER	Trans-epithelial electrical resistance
TJP	Tight junction proteins
TNF- α	Tumor necrosis factor-alpha
TSA	Tryptic soy agar
TSB	Trypticase soy broth
ZO-1	Zonula occludens-1

Supplementary Figures

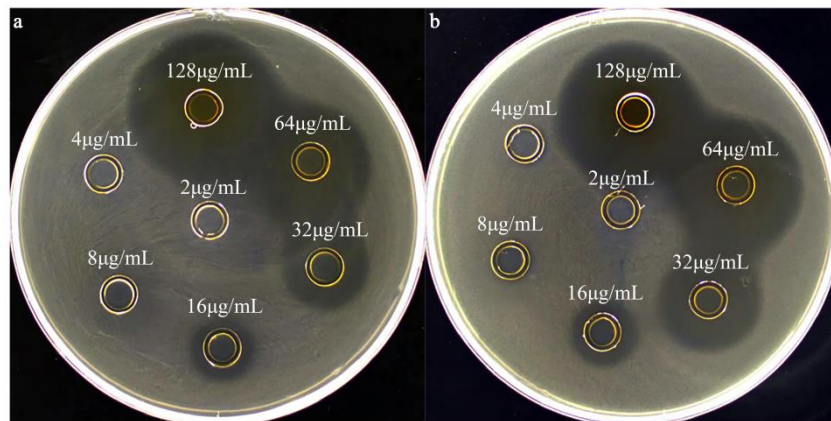


Figure S1 Inhibition zone assay of *L. monocytogenes* treated with enterocin Gr17 (a) and plantaricin RX-8 (b) at different concentrations

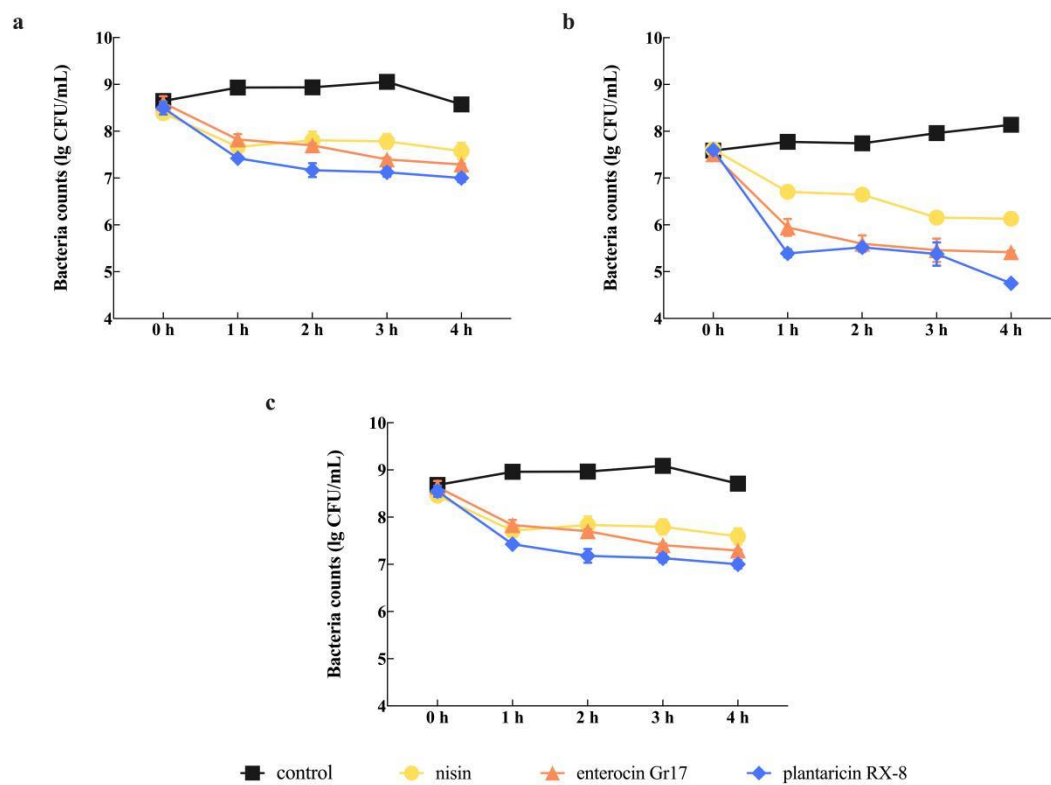


Figure S2 Protective effects of bacteriocins against *L. monocytogenes* infecting Caco-2 cells. *L. monocytogenes* amount at extracellular (a), intracellular (b), and both extracellular and intracellular (c)

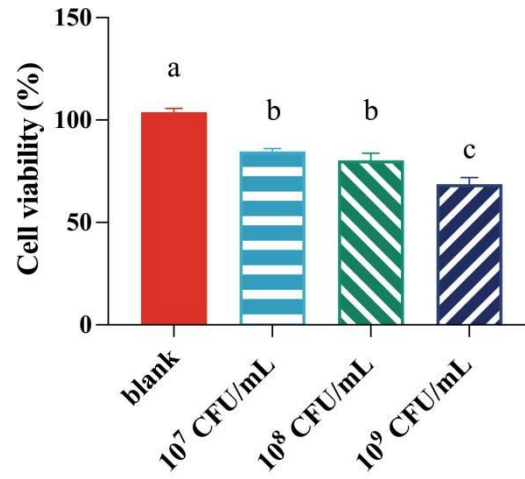


Fig S3 Cell cytotoxicity assays of *L. monocytogenes* in Caco-2 cells

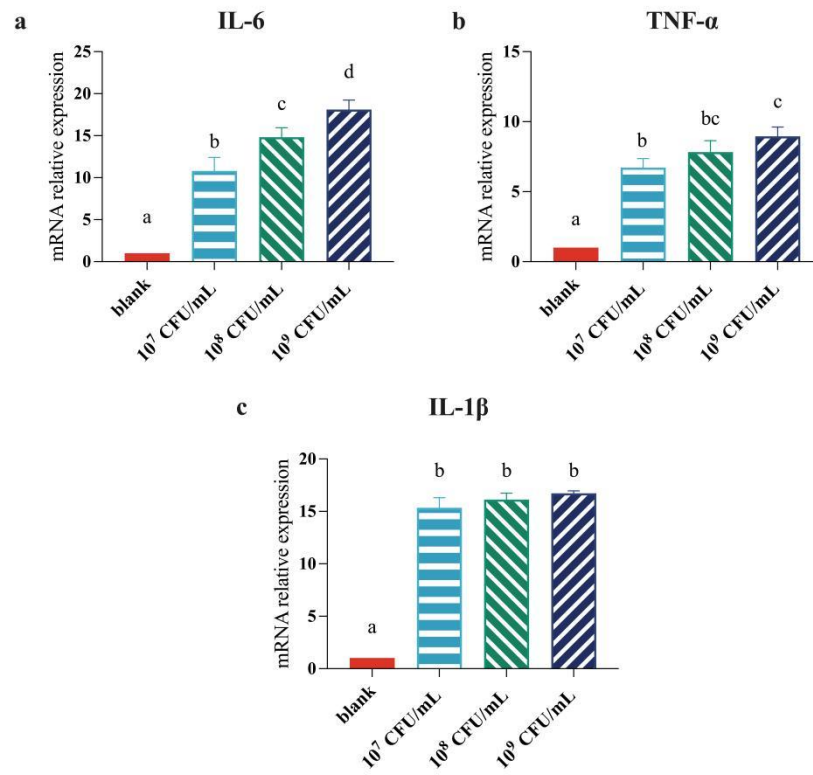


Fig S4 Gene expression levels of pro-inflammatory cytokines IL-6 (a), TNF- α (b), and IL-1 β (c) transcript levels in Caco-2 cells induced by *L. monocytogenes*

References

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