

**Supplementary Table S1.** Primer sequences used for real-time quantitative reverse transcriptase polymerase chain reaction (RT-qPCR)

Gene	Sequences	Primers
iNOS	Forward (5'-3')	GACATTACGACCCCTCCCAC
	Reverse (5'-3')	GCACATGCAAGGAAGGGAAC
COX-2	Forward (5'-3')	TTGGAGGCGAAGTGGGTTTT
	Reverse (5'-3')	TGGCTGTTTTGGTAGGCTGT
Substance P	Forward (5'-3')	TGGACATGGCCAGATCTCTCACAA
	Reverse (5'-3')	GCATCGCGCTTCTTTTCATAAGCCA
Claudin-1	Forward (5'-3')	GTTTGCAGAGACCCCATCAC
	Reverse (5'-3')	AGAAGCCAGGATGAAACCCA
Filaggrin	Forward (5'-3')	CTTCTGGAAGGA CAACTACAGGC
	Reverse (5'-3')	GCTTTTGCCAGCTTTAGCACCAG
ZO-1	Forward (5'-3')	ACAGGCCATTACGAGCCTCT
	Reverse (5'-3')	GGAGGCTGTGGTTTGGTAGC
Occludin	Forward (5'-3')	CTCCCATCCGAGTTTCAGGT
	Reverse (5'-3')	GCTGTGCGCCTAAGGAAAGAG
$\beta$ -actin	Forward (5'-3')	TGCTGTCCCTGTATGCCTCTG
	Reverse (5'-3')	TGATGTCACGCACGATTTCC