Table S1. List of oligonucleotide primer sequences and PCR conditions used for the identification of *Listeria* spp.

Primers	Sequences (5′-3′)	Target Genes	Amplicon size (bp)	Annealing T°c	PCR Conditions	References
27F	AGAGTTTGATCCTGGCTCAG	*16S rRNA*	1420	59	94 °C for 10 min, 25 cycles, 97 °C for 1 min, annealing temperature for 1 min and 72 °C for 1 min 30 s, and final extension at 72 °C for 15 min.	[1]
1492R	GGTTACCTTGTTACGACTT					
PRS F	GCTGAAGAGATTGCGAAAGAAG	*prs*	370	54	5 min at 94 °C, 35 cycles, 94 °C for 45 s, annealing temperature for 30 s and 72 °C for 1 min, and a final extension of 72 °C for 10 min.	[2]
PRS R	CAAAGAAACCTTGGATTTGCGG					
PRFA F	GAT ACA GAA ACA TCG GTT GGC	*prfA*	274	56	94 °C for 5 min, 33 cycles, 94 °C for 45 s, annealing temperature for 30 s and extension at 72 °C for 1 min, and final extension at 72 °C for 5 min.	[2]
PRFA R	GTGTAA TCT TGA TGC CAT CAG					
JOGRAYIF	GCGGATAAAGGTGTTCGGGTCAA	*oxidoreductase*	201	58	94 °C for 5 min, 35 cycles, annealing temperature for 30 s and 72 °C for 30 s, final extension 72 °C for 5 min.	[3]
JOGRAYIR	ATTTGCTATCGTCCGAGGCTAGG					
LIN0464F	CGCATTTATCGCCAAAACTC	*lin0464*	749			
LIN0464R	TCGTGACATAGACGCGATTG					
LIV22228F	CGAATTCCTTATTCACTTGAGC	*namA*	463			
LIV22228R	GGTGCTGCGAACTTAACTCA					
LMO1030F	GCTTGTATTCACTTGGATTTGTCTGG	*lmo1030*	509			
LMO1030R	ACCATCCGCATTCTCAGCCAACT					
ISEELINF	GTACCTGCTGGGAGTACATA	*lmo0333*	673			
ISEELINR	CTGTCTCCATATCCGTACAG					
LWE1801F	CGTGGCACAATAGCAATCTG	*scrA*	281			
LWE1801R	GACATGCCTGCTGAACTAGA					

Table S2. List of oligonucleotide primer sequences and PCR conditions used for detection of virulence genes in *L. monocytogenes.*

Primers	Sequences (5′-3′)	Target Genes	Amplicon Size (bp)	Annealing T °C	PCR Conditions	References
inlAF	CCTAGCAGGTCTAACCGCAC	*inlA*	256	52	94 °C for 5 min, 35 cycles, 94 °C for 35 s, annealing temperature for 30 s and 72 °C for 1 min, and a final extension for 10 min at 72 °C.	[4]
INLAR	TCGCTAATTTGGTTATGCCC					
INLBF	TGATGTTGATGGAACGGTAAT	*inlB*	272	52		[5]
INLBR	CTCGTGGAAGTTTGTAGATGC					
INLCR	AATTCCCACAGGACACAACC	*inlC*	517	52		[6]
INLCF	CGGGAATGCAATTTTTCACTA					
INLJR	TGTAACCCCGCTTACACAGTT	*inlJ*	238	52		
INLJF	AGCGGCTTGGCAGTCTAATA					
ACTAF	CCAAGCGAGGTAAATACGGGA	*actA*	650	52		[7]
ACTAR	GTCCGAAGCATTTACCTCTTC					
HLYAF	ATCATCGACGGCAACCTCGGAGAC	*hlyA*	404	52		[5]
HLYAR	CACCATTCCCAAGCTAAACCAGTGC					
PLCAF	CTCGGACCATTGTAGTCATCTT	*plcA*	326	52		[7]
PLCAR	CACTTTCAGGCGTATTAGAAACGA					
PLCBF	CTGCTTGAGCGTTCATGTCTCATC	*plcB*	289	52		[5]
PLCBR	ATGGGTTTCACTCTCCTTCTAC					
IAPF	ACAAGCTGCACCTGTTGCAG	*iap*	131	52		[8]
IAPR	TGACAGCGTGTGTAGTAGCA					

Table S3. List of oligonucleotide primer sequences and PCR conditions used for detection of antibiotic resistance genes in *L. monocytogenes.*

Primers	Sequen0ces (5′-3′)	Target Genes	Amplicon Size (bp)	Annealing T °C	PCR Conditions	References
erm(A)F	AAGCGGTAAACCCCTCTGAG	*erm(A)*	441	53	95 °C for 4min, 35 cycles, 30 s at 94 °C, annealing temperature for 30 s, 1.5 min at 72 °C, and a final extension step at 72 °C for 7 min.	[9]
erm(A)R	TCAAAGCCTGTCGGAATTGG					
erm(B1)F	CATTTAACGACGAAACTGGC	*erm(B1)*	425	60		
erm(B1)R	GGAACATCTGTGGTATGGCG					
erm(B2)F	GAAAAGGTACTCAACCAAATA	*erm(B2)*	639	58		[10]
erm(B2)F	AGTAACGGTACTTAAATTGTTTAC					
erm(C)F	ATCTTTGAAATCGGCTCAGG	*erm(C)*	295	49		[9]
erm(C)R	CAAACCCGTATTCCACGATT					
erm(T)F	TATTATTGAGATTGGTTCAGGG	*erm(T)*	395	56		
erm(T)R	GGATGAAAGTATTCTCTAGGGATTT					
BlaTEMF	TTC TTG AAG ACG AAA GGG C	*bla*$_{TEM}$	1190	60	94 °C for 60 s at, 30 cycles, 60 s at 94 °C, annealing temperature for 60 s and 72 °C for 60 s, and final extension for 5 min at 72 °C.	[11]
BlaTEMR	ATG GTG AGT GGA ACG AAA AC					

dfr1F	TGGTAGCTATATCGAAGAATGGAGT	*dfr1*	425	52	95 °C for 10 min, 30 cycles, 45 s at 94 °C, annealing temperature for 45 s and 2 min at 72 °C, with a final extension for 10 min at 72 °C.	[12]
dfr1R	TATGTTAGAGGCGAAGTCTTGGGTA					
dfr5F	AGCTACTCTTTAAAGCCTTGACGTA	*dfr5*	341	55		
dfr5R	GTGTTGCTCAAAAACAACTTCG					
dfr12F	GAGCTGAGATATACACTCTGGCACT	*dfr12*	155	60		
dfr12R	GTACGGAATTACAGCTTGAATGGT					
dfr1SF	ATGGAGTGCCAAAGGTGAAC	*dfr1s*	241	52		
dfr1SR	TATCTCCCCACCACCTGAAA					
dfr5SF	TCATTAATGGCTGCAAAAGC	*dfr5s*	460	55		
dfr5sR	CCTTTTGCCAAATTTGATAGC					
dfr7sF	TCTGCAACGTCAGAAAATGG	*dfr7s*	404	55		
dfr7sR	TGCTCAAAAACCAAATTGAAA					
dfr12sF	TTTATCTCGTTGCTGCGATG	*dfr12s*	457	60		
dfr12sR	TAAACGGAGTGGGTGTACGG					
dfr17sF	GAAAATATCATTGATTTCTGCAGTG	*dfr17s*	465	55		
dfr17sR	TTTTTCCAAATCTGGTATGTATAATTT					
pse-1 F	CGCTTCCCGTTAACAAGTAC	*pse-1*	419	57	94 °C for 12 min, 34 cycles, 1 min at 94 °C, annealing temperature for 45 s, 5 min at 72 °C, and 5 min, 5 sat 72 °C for final extension.	[13]
pse-1 R	CTGGTTCATTTCAGATAGCG					
ant F	GTGGATGGCGGCCTGAAGCC	*ant (3″)-la*	526	58	3 min at 94 °C, 35 cycles, 1 min at 94 °C, annealing temperature for 45 s and 1 min at 72° C, and final extension of 5 min at 72 °C.	[14]
ant R	ATTGCCCAGTCGGCAGCG					
tet A F	GCTACATCCTGCTTGCCTTC	*tet A*	210	55	94 °C for 5 min, 34 cycles, annealing temperature for 45 s, 25 s at 94 °C and 50 s at 72 °C, and 5 min at 72 °C for the final extension.	
tet A R	CATAGATCGCCGTGAAGAGG					
tet B F	TTGGTTAGGGGCAAGTTTTG	*tet B*	659			
tet B R	GTAATGGGCCAATAACACCG					
Sul 1 F	F:GCG CGG CGT GGG CTA CCT	*sul 1*	350	65	94 °C for 5 min, 34 cycles, 25 s at 94 °C, annealing temperature for 45 s, and 50 s at 72 °C, and 5 min at 72 °C for the final extension.	
Sul 1 R	GATTTCCGCGACACCGAGACAA					
Sul 2 F	CGG CAT CGT CAA CAT AACC	*sul 2*	720	52	94° C for 5 min, 34 cycles, annealing temperature for 45 s, 25 s at 94 °C and 50 s at 72 °C, and 5 min at 72°C for the final extension.	
Sul 2 R	GTG TGC GGA TGA AGT CAG					

Table S4. List of oligonucleotide primer sequences and PCR conditions used for detection of genes associated with biofilm formation in *L. monocytogenes.*

Primers	Sequences (5′-3′)	Target Genes	Amplicon Size (bp)	Annealing T °C	PCR Conditions	References
luxS F	GGA AAT GCC AGC GCT ACA CTC TTT	*luxs*	208	58	94 °C for 2 min, 35 cycles, 30 s at 94 °C, annealing temperature for 30 s and 1 min, extension at 72 °C, and final extension of 7 min at 72 °C.	[15]
luxS R	ATT GCA TGC AGG AACTTC TGT CGC					
flaA F	GCG CAA GAA CGT TTA GCA TCT GGT	*flaA*	363			
flaA R	TTG AGT AGC AGC ACC TGT AGC AGT					

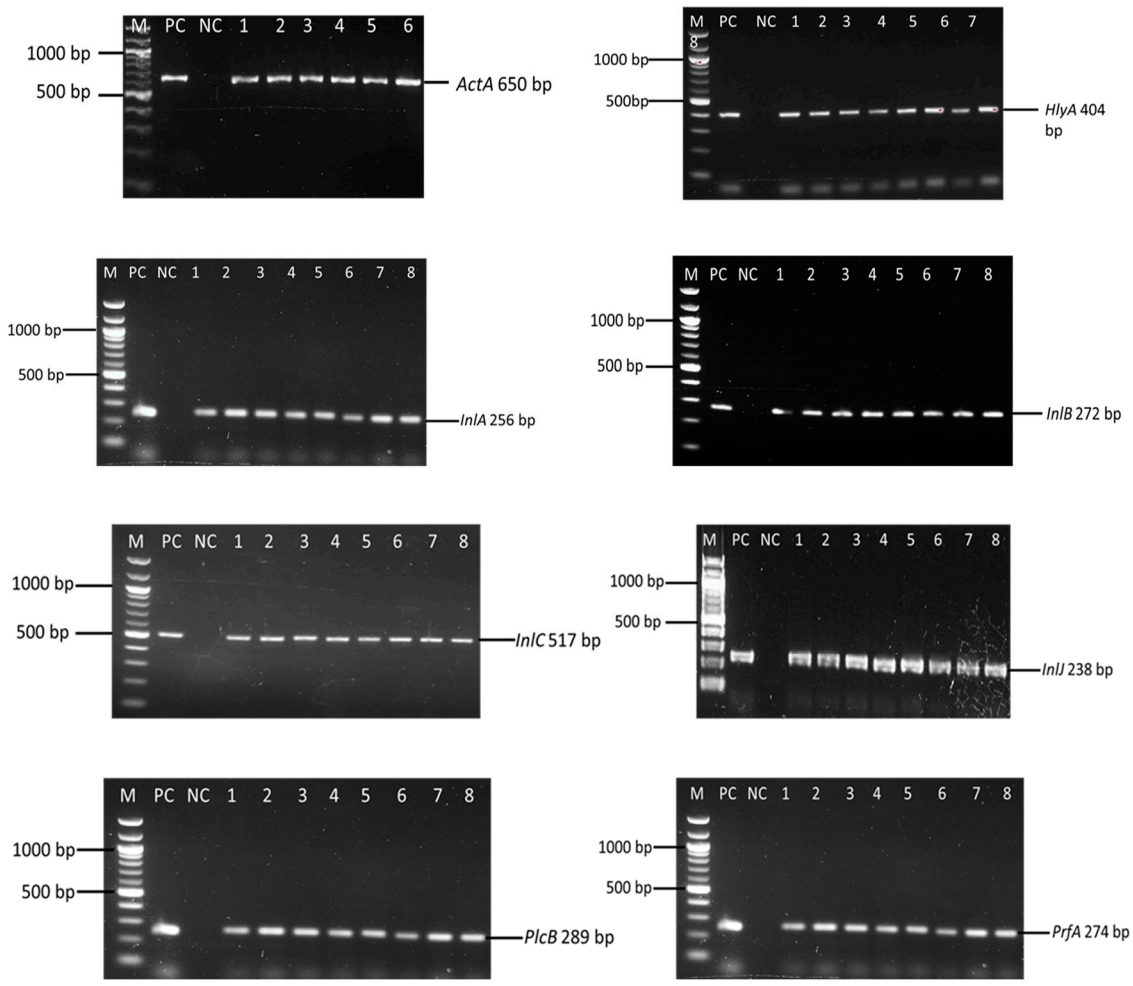

Figure S1. PCR amplification of virulence genes (M: Marker, PC: Positive control, NC: Negative control, 1-8: isolates amplification of virulence genes).

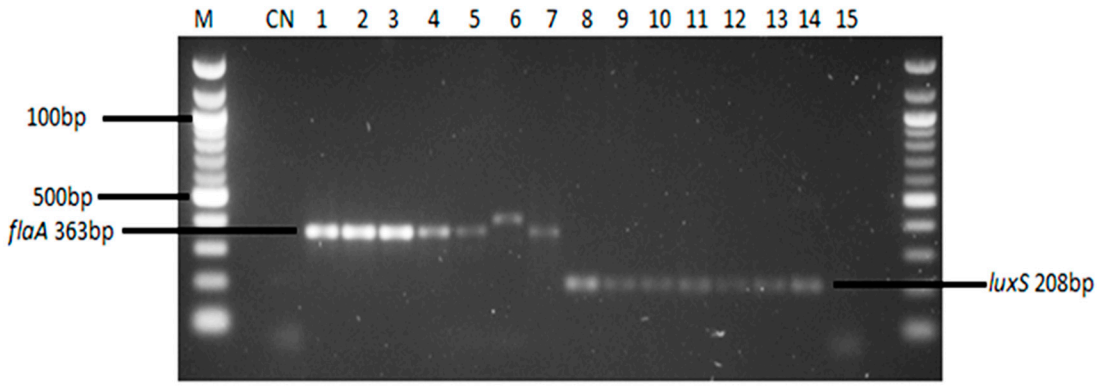

Figure S2. PCR amplification of biofilm genes (M: Marker, CN: Negative control, 1: Positive control, 2-7: isolates amplification of *flaA* gene, 8-13: isolates amplification of *LuxS* gene, 14: Positive control, 15: negative control).

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