Supporting Information

Figure 1. MALDI-TOF mass spectrometry of bacteriocin E 50-52**.** Arg-Insulin (molecular mass of 3,484 Da) was used as the internal standard. An average molecular mass of 3,339.7 ± 0.3 Da for bacteriocin E 50-52 was calculated.

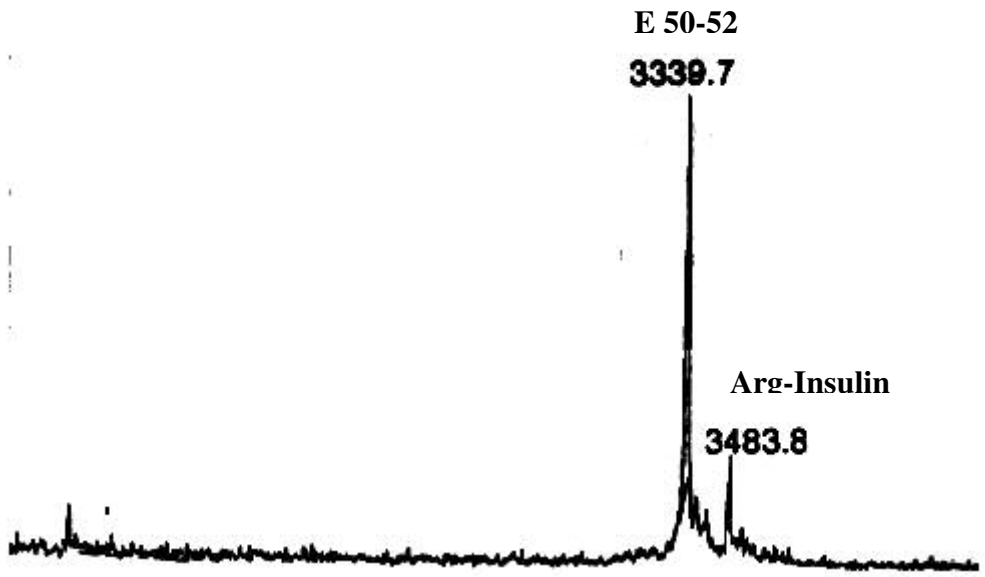

Figure 1.

Table 2. In-vitro minimal inhibitory concentrations (µg/ml) of bacteriocin E 50-52 against (**A**) *Campylobacter jejuni,* (B) *Yersinia enterocolitica*, (C) *Staphylococcus* spp., (D) *Listeria* spp., and (E) other pathogenic bacteria.

A. Ninety-six (96) test strains of *Campylobacter jejuni* sensitive at specified MIC (% of strains tested)	MICs (µg/ml)for bacteriocin E 50-52
1 (1.0)	0.025
11 (11.5)	0.05
17 (17.7)	0.1
19 (19.8)	0.2
14 (14.6)	0.4
15 (15.6)	0.8
9 (9.4)	1.6
8 (8.3)	3.2
2 (2.1)	6.4
0	>6.4
B. *Yersinia* spp. test strains	
1 *Y. enterocolitica* 665	0.625
2 *Y. enterocolitica* 639	0.312
3 *Y. enterocolitica* 672	0.312
4 *Y. enterocolitica* 678	0.312
5 *Y. enterocolitica* 670	0.625
6 *Y. enterocolitica* 673	0.625
7 *Y. enterocolitica* 667	0.625
8 *Y. enterocolitica* 684	0.312
9 *Y. enterocolitica* 678	0.312
10 *Y. enterocolitica* 669	0.156
11 *Y. enterocolitica* 677	0.625
12 *Y. enterocolitica* 666	0.625
13 *Y. enterocolitica* 095	0.625
14 *Y. enterocolitica* 693	0.625
15 *Y. enterocolitica* 675	0.625
16 *Y. enterocolitica* 685	1.25
17 *Y. enterocolitica* 626	0.156
18 *Y. enterocolitica* H2 703	0.156
19 *Y. enterocolitica* 287	0.156
20 *Y. enterocolitica* H7604	0.312
21 *Y. enterocolitica* 239-32	0.156
22 *Y. enterocolitica* 11	0.312
23 *Y. enterocolitica* 03	0.312
24 *Y. enterocolitica* 09	0.156

	C. *Staphylococcus* spp. test strains	
1	*Staphylococcus aureus* B-1	0.4
2	*Staphylococcus aureus* 1	0.4
3	*Staphylococcus aureus* 538 P	0.2
4	*Staphylococcus aureus* MS 353	0.2
5	*Staphylococcus aureus* 2	0.4
6	*Staphylococcus aureus* 906	0.8
7	*Staphylococcus aureus* 1657	0.4
8	*Staphylococcus aureus* 209 H	0.4
9	*Staphylococcus aureus* 8325-4	0.4
10	*Staphylococcus aureus* 8325	0.8
11	*Staphylococcus aureus* b-8325	0.8
13	*Staphylococcus aureus* SA303	0.8
14	*Staphylococcus aureus* ATCC 538R	0.4
15	*Staphylococcus aureus* 1662	0.2
16	*Staphylococcus aureus* 8325	0.4
17	*Staphylococcus aureus* RN 1801	0.4
18	*Staphylococcus aureus* SA 310	0.4
19	*Staphylococcus aureus* 403 TE	0.4
20	*Staphylococcus aureus* RN 2425	0.4
21	*Staphylococcus aureus* NIINA	0.8
22	*Staphylococcus aureus* 33	0.8
23	*Staphylococcus aureus* 34	0.4
24	*Staphylococcus aureus* 65	0.8
25	*Staphylococcus aureus* 40	0.4
26	*Staphylococcus aureus* 431	0.4
27	*Staphylococcus epidermidis* 4804	0.8
28	*Staphylococcus epidermidis* ATCC 1490	0.4
29	*Staphylococcus epidermidis* ATCC 1367	0.8
	D. *Listeria* spp. test strains	MIC (µg/ml)
1	*L. monocytogenes* C 201	1.95
2	*L. monocytogenes* A	7.8
3	*L. monocytogenes* 1	7.8
4	*L. monocytogenes* NCTC 11994	7.8
5	*L. monocytogenes* C 663	1.95
6	*L. monocytogenes* 766	3.9
7	*L. monocytogenes* 994	1.95
8	*L. monocytogenes* C 52	7.8
9	*L. monocytogenes* C 670	7.8
10	*L. monocytogenes* C664	7.8
11	*L. denitrificans*	31.25
12	*L. grayi* C 214	1.95

13	*L. murrayi* G-44	3.9
14	*L. innocula* C 644	3.9
15	*L. innocula*	7.8
16	*L. ivanovi*	0.98

E. Assorted pathogenic bacteria

Campylobacter jejuni L4	0.2
Campylobacter jejuni B1	0.2
Escherichia coli 0157:H7 Ya61	0.1
Listeria monocytogenes 9-72	0.2
Morganella morganii	1.6
Salmonella choleraesuis 370	0.1
Salmonella typhimurium 383/60	0.1
Salmonella typhimurium 320	0.1
Salmonella gallinarum pullorum	0.1
Shigella dysenteriae	0.2
Staphylococcus aureus	0.4
Staphylococcus epidermidis	0.8
Yersinia pseudotuberculosis ser 4	0.1
Yersinia pseudotuberculosis 14	0.1