

Table S1 Detailed MSMS analysis of Enterocin RM6.

Theoretical m/z	Measured m/z	Δ Mass (Da)	Internal Ion Sequence
Cyclized peptide broken in between I8 and P9			
410.2398	410.24		PAAVA
467.2613	467.26	57.02 (Gly)	PAAVAG
568.3089	568.31	101.05 (Thr)	PAAVAGT
667.3774	667.38	99.07 (Val)	PAAVAGTV
780.4614	780.461	113.08 (Leu)	PAAVAGTVL
894.5043	894.501	114.04 (Asn)	PAAVAGTVLN
993.5728/497.2903 ²⁺	993.571/497.29 ²⁺	99.07 (Val)	PAAVAGTVLNV
1092.6412/546.8245 ²⁺	1092.64/546.82 ²⁺	99.07 (Val)	PAAVAGTVLNVV
1221.6838/611.3458 ²⁺	1221.68/611.34 ²⁺	129.04 (Glu)	PAAVAGTVLNVVE
1292.7209/646.8644 ²⁺	1292.72/646.86 ²⁺	71.04 (Ala)	PAAVAGTVLNVVEAG
1406.7638/703.8858 ²⁺	1406.76/703.88 ²⁺	114.04 (Gly-Gly)	PAAVAGTVLNVVEAGG
1592.8431/796.9255 ²⁺	1592.84/796.92 ²⁺	186.08 (Trp)	PAAVAGTVLNVVEAGGW
1691.9115/846.4597 ²⁺	1691.91/846.46 ²⁺	99.07 (Val)	PAAVAGTVLNVVEAGGWV
896.9835 ²⁺	896.98 ²⁺	101.04 (Thr)	PAAVAGTVLNVVEAGGWVT
1053.5840 ²⁺	1053.59 ²⁺	313.22 (Thr-Ile-Val)	PAAVAGTVLNVVEAGGWVTTIV
575.3188	575.32		KEFGI
646.3559	646.36	71.04 (Ala)	AKEFGI
777.3964	777.40	131.04 (Met)	MAKEFGI
963.4757	963.48	186.08 (Trp)	WMAKEFGI
1034.5128	1034.51	71.03 (Ala)	AWMAKEFGI
958.0586 ⁺²	958.05 ⁺²		KKGKRAVIAWMAKEFGI
1143.1694 ⁺²	1143.17 ⁺²	370.24 (Lys-Leu-Glu)	EIKKKKGKRAVIAWMAKEFGI
1207.2169 ⁺²	1207.22 ⁺²	128.10 (Lys)	KEIKKKKGKRAVIAWMAKEFGI
1271.2643 ⁺²	1271.24 ⁺²	128.04 (Lys)	KKEIKKKKGKRAVIAWMAKEFGI
1327.8064 ⁺²	1327.78 ⁺²	113.08 (Leu)	LKKEIKKKKGKRAVIAWMAKEFGI
1362.4694 ⁺³	1362.47 ⁺³		SLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGI
1400.1641 ⁺³	1400.16 ⁺³	113.07 (Leu)	LSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGI
1419.1712 ⁺³	1419.17 ⁺³	57.03 (Gly)	GLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGI
1438.1784 ⁺³	1438.18 ⁺³	57.03 (Gly)	GGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGI
1467.1891 ⁺³ /1100.643	1467.19 ⁺³ /1100.6	87.03 (Ser)	SGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGI

6 ⁺⁴	4 ⁺⁴		
1486.1962 ⁺³ /1114.899 0 ⁺⁴	1486.19 ⁺³ /1114.9 0 ⁺⁴	57.00 (Gly)	GSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1519.2190 ⁺³ /1139.666 1 ⁺⁴	1519.22 ⁺³ /1139.6 4 ⁺⁴	99.09 (Val)	VGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1542.8981 ⁺³ /1157.425 4 ⁺⁴	1542.90 ⁺³ /1157.4 2 ⁺⁴	71.04 (Ala)	AVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1576.5806 ⁺³	1576.58 ⁺³	101.04 (Thr)	TAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1614.2753 ⁺³ /1210.958 3 ⁺⁴	1614.28 ⁺³ /1210.9 6 ⁺⁴	113.1 (Leu)	LTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1651.9700 ⁺³ /1239.229 3 ⁺⁴	1651.96 ⁺³ /1239.2 3 ⁺⁴	113.04 (Ile)	ILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1680.9807 ⁺³ /1260.987 3 ⁺⁴	1680.98 ⁺³ /1260.9 9 ⁺⁴	87.06 (Ser)	SILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1714.0035 ⁺³ /1285.754 4 ⁺⁴	1714.00 ⁺³ /1285.7 5 ⁺⁴	99.06 (Val)	VSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1751.6982 ⁺³ /1314.025 4 ⁺⁴	1751.69 ⁺³ /1314.0 2 ⁺⁴	113.07 (Leu)	IVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1785.3807 ⁺³ /1339.287 4 ⁺⁴	1785.38 ⁺³ /1339.28 +4	101.07 (Thr)	TIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1819.0633 ⁺³ /1364.549 3 ⁺⁴	1819.06 ⁺³ /1364.5 5 ⁺⁴	101.04 (Thr)	TTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1852.0861 ⁺³ /1389.316 4 ⁺⁴	1852.05 ⁺³ /1389.3 1 ⁺⁴	98.97 (Val)	VTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1435.8362 ⁺⁴	1435.83 ⁺⁴	186.17 (Trp)	WVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1450.0916 ⁺⁴	1450.10 ⁺⁴	57.08 (Gly)	GWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1464.3469 ⁺⁴	1464.35 ⁺⁴	57.00 (Gly)	GGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1514.3669 ⁺⁴	1514.37 ⁺⁴	200.08 (Ala+Glu)	EAGGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1396.4038 ⁺⁵	1396.40 ⁺⁵		AVAGTVLNVVEAGGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
1410.6112 ⁺⁵	1410.61 ⁺⁵	71.05 (Ala)	AAVAGTVLNVVEAGGWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGI
Cyclized peptide broken in between A11 and V12			
1124.4120 ⁺⁴	1124.41 ⁺⁴		GLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1138.6674 ⁺⁴	1138.67 ⁺⁴	57.04 (Gly)	GGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1160.4254 ⁺⁴	1160.43 ⁺⁴	87.04 (Ser)	SGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1174.6807 ⁺⁴	1174.68 ⁺⁴	57.00 (Gly)	GSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1199.4478 ⁺⁴	1199.44 ⁺⁴	99.04 (Val)	VGSGGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA

1217.2071 ⁺⁴	1217.21 ⁺⁴	71.08 (Ala)	AVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1270.7401 ⁺⁴	1270.74 ⁺⁴	214.12 (Thr-Leu)	LTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1299.0111 ⁺⁴	1299.01 ⁺⁴	113.08 (Ile)	ILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1320.7691 ⁺⁴	1320.77 ⁺⁴	87.04 (Ser)	SILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1345.5362 ⁺⁴	1345.53 ⁺⁴	99.04 (Val)	VSILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1373.8072 ⁺⁴	1373.80 ⁺⁴	113.08 (Leu)	IVSILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1399.0691 ⁺⁴	1399.07 ⁺⁴	101.08 (Thr)	TIVSILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1424.3310 ⁺⁴	1424.33 ⁺⁴	101.04 (Thr)	TTIVSILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
1449.0981 ⁺⁴	1449.10 ⁺⁴	99.08 (Val)	VTTIVSILTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAA
Cyclized peptide broken in between V19 and V20			
1327.0270 ⁺⁴	1327.02 ⁺⁴		GGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
1348.7850 ⁺⁴	1348.78 ⁺⁴	87.04 (Ser)	SGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
1363.0404 ⁺⁴	1363.04 ⁺⁴	57.04 (Gly)	GSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
1387.8075 ⁺⁴	1387.80 ⁺⁴	99.04 (Val)	VGGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
1405.5667 ⁺⁴	1405.56 ⁺⁴	71.04 (Ala)	AVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
1430.8287 ⁺⁴	1430.82 ⁺⁴	101.04 (Thr)	TAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAVAGTVLNV
Cyclized peptide broken in between V12 and A13			
556.3089	556.31		AGTVLN
655.3774	655.38	99.07 (Val)	AGTVLNV
754.4458	754.45	99.07 (Val)	AGTVLNVV
883.4884	883.49	129.04 (Glu)	AGTVLNVVE
954.5255	954.53	71.04 (Ala)	AGTVLNVVEA
1011.5469	1011.55	57.02 (Gly)	AGTVLNVVEAG
1106.6527 ⁺⁴	1106.65 ⁺⁴		SLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1134.9237 ⁺⁴	1134.91 ⁺⁴	113.04 (Ala)	LSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1531.9030 ⁺³	1531.89 ⁺³	57.03 (Gly)	GLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1163.4345 ⁺⁴ /1550.9102 ⁺³	1163.43 ⁺⁴ /1550.91 ⁺³	57.05 (Gly)	GGLSLLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1199.4478 ⁺⁴ /1598.9280 ⁺³	1199.45 ⁺⁴ /1598.93 ⁺³	144.08 (Ser-Gly)	GSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1224.2149 ⁺⁴ /1631.9508 ⁺³	1224.22 ⁺⁴ /1631.95 ⁺³	99.08 (Val)	VGGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1241.9742 ⁺⁴ /1655.6299 ⁺³	1241.97 ⁺⁴ /1655.63 ⁺³	71.00 (Ala)	AVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1267.2361 ⁺⁴ /1689.3124 ⁺³	1267.24 ⁺⁴ /1689.31 ⁺³	101.08 (Thr)	TAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV
1295.5072 ⁺⁴ /1727.007	1295.50 ⁺⁴ /1727.0	113.04 (Leu)	LTAVGSGGSLSLAAAGRESIKAYLKKEIKKKGKRAVIAMAKEFGIPAAV

1 ⁺³	1 ⁺³		
1323.7782 ⁺⁴	1323.77 ⁺⁴	113.08 (Ile)	ILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1345.5362 ⁺⁴ /1793.712 5 ⁺³	1345.53 ⁺⁴ /1793.7 0 ⁺³	87.04 (Ser)	SILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1370.3033 ⁺⁴	1370.30 ⁺⁴	99.08 (Val)	VSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1398.5743 ⁺⁴	1398.56 ⁺⁴	113.04 (Ile)	IVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1423.8362 ⁺⁴	1423.83 ⁺⁴	101.08 (Thr)	TIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1449.0981 ⁺⁴	1449.10 ⁺⁴	101.08 (Thr)	TTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1473.8652 ⁺⁴	1473.86 ⁺⁴	99.04 (Val)	VTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV
1534.6404 ⁺⁴	1534.64 ⁺⁴	243.12 (Trp- Gly)	GWVTTIVSILTAVGSGGLSLLAAAGRESIKAYLKKEIKKKKGKRAVIAWMAKEFGIPAAV