

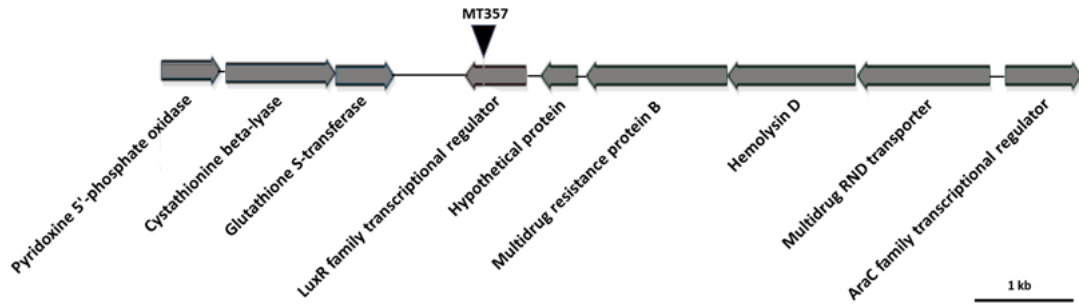
1 **Suppl. Table 1.** Chemical shift values for the siderophore product ornibactin

Residue	¹ H	¹³ C	Residue	¹ H	¹³ C
HOA-C-2	2.67/2.47	42.56	Ser ³ -NH	8.05	
HOA-C-3	3.98	71.42	Ser ³ -C α	4.33	-
HOA-C-4	1.45/1.36	39.91	Ser ³ -C β	3.82/3.75	64.13
HOA-C-5	1.25	34.58	Orn ⁴ (N δ -OH)-NH ³⁺	8.14/8.04	
HOA-C-6	1.25	28.13	Orn ⁴ (N δ -OH)-C α	4.20/4.18	52.74
HOA-C-7	1.25	25.48	Orn ⁴ (N δ -OH)-C β	1.68/1.60 1.73/1.66	25.54 22.87
HOA-C-8	0.85	16.65	Orn ⁴ (N δ -OH)-C γ	1.68/1.60 1.83/1.74	30.85
Orn ¹ (N δ -OH)-NH ³⁺	-	-	Orn ⁴ (N δ -OH)-C δ	3.48/3.17	53.14
Orn ¹ (N δ -OH)-C α	4.08	56.09	N δ -formyl		
Orn ¹ (N δ -OH)-C β	1.55	24.33	Put-NH	7.77	
Orn ¹ (N δ -OH)-C γ	1.77	31.25	Put-C-1	3.14	41.79
Orn ¹ (N δ -OH)-C δ	3.74/3.47	50.23	Put-C-2	1.47	28.65
Asp ² (β -OH)-NH	8.57	-	Put-C-3	1.53	27.36
Asp ² (β -OH)-C α	4.89	59.70	Put-C-4	2.88	42.56
Asp ² (β -OH)-C β	4.60	74.38	Put-NH ³⁺	7.42	

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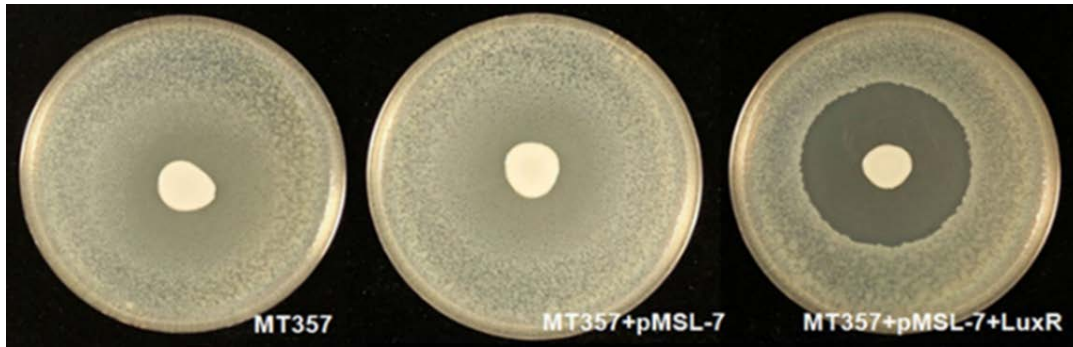


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6 **Suppl. Fig. 1.** A 10-Kb genomic region of *Burkholderia contaminans* strain MS14 with
7 the mutation location 357. The vertical arrow indicates the location of the transposon in
8 the mutant MT357.

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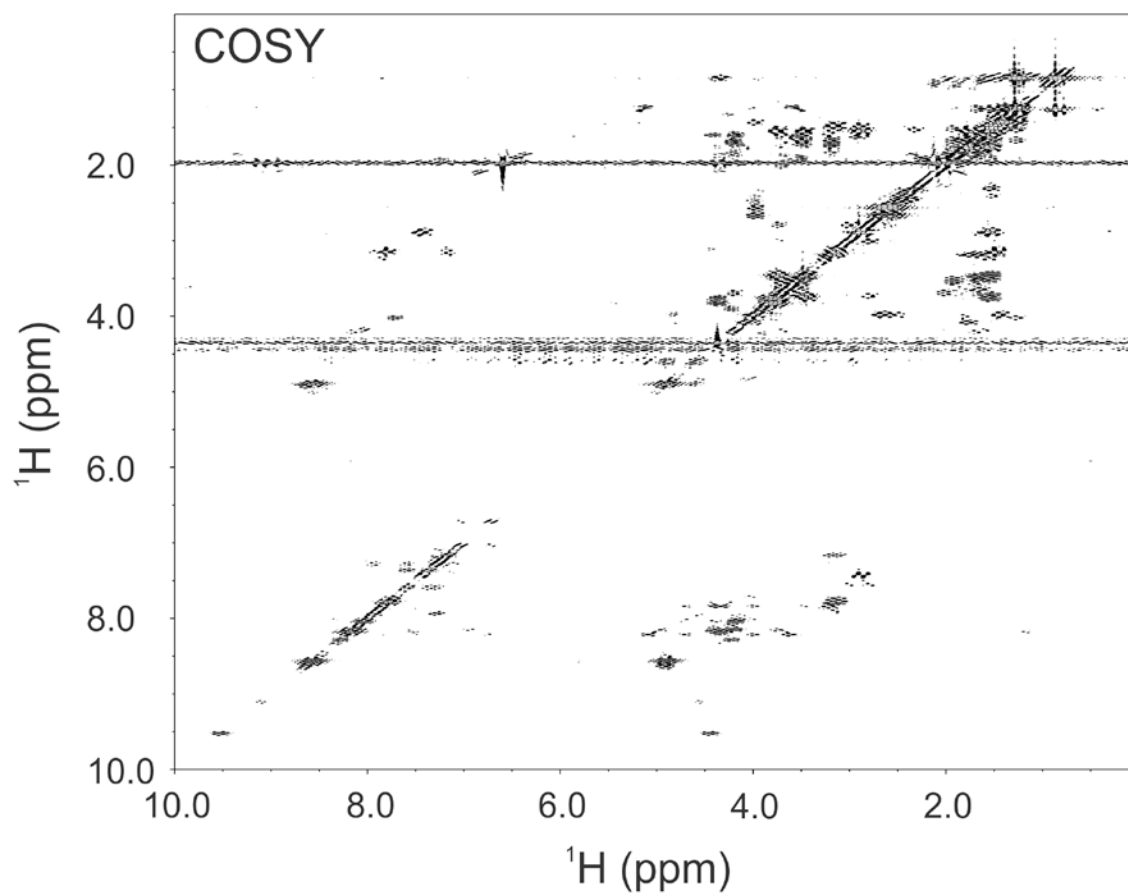
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19 **Suppl. Fig. 3.** Constitutive expression of the *LuxR* homolog gene could restore the
20 antibacterial activity against *E. amylovora*. A 5- μ l aliquot of bacterial suspension
21 ($OD_{420}=0.3$) was inoculated onto the center of NBY plates. After the plates were incubated
22 for 3 days at 28°C, the NBY plates were oversprayed with suspension of the indicator
23 bacterium *E. amylovora* ($OD_{420}=0.3$). The inhibition zone is the indicator of antibacterial
24 activity. MT357: the *LuxR* mutant; MT357+pMSL-7: MT375 containing the empty vector
25 pMSL-7; and MT357+pMSL-7+LuxR: MT357 contacting the plasmid pDP357-2 with a
26 functional *luxR*.

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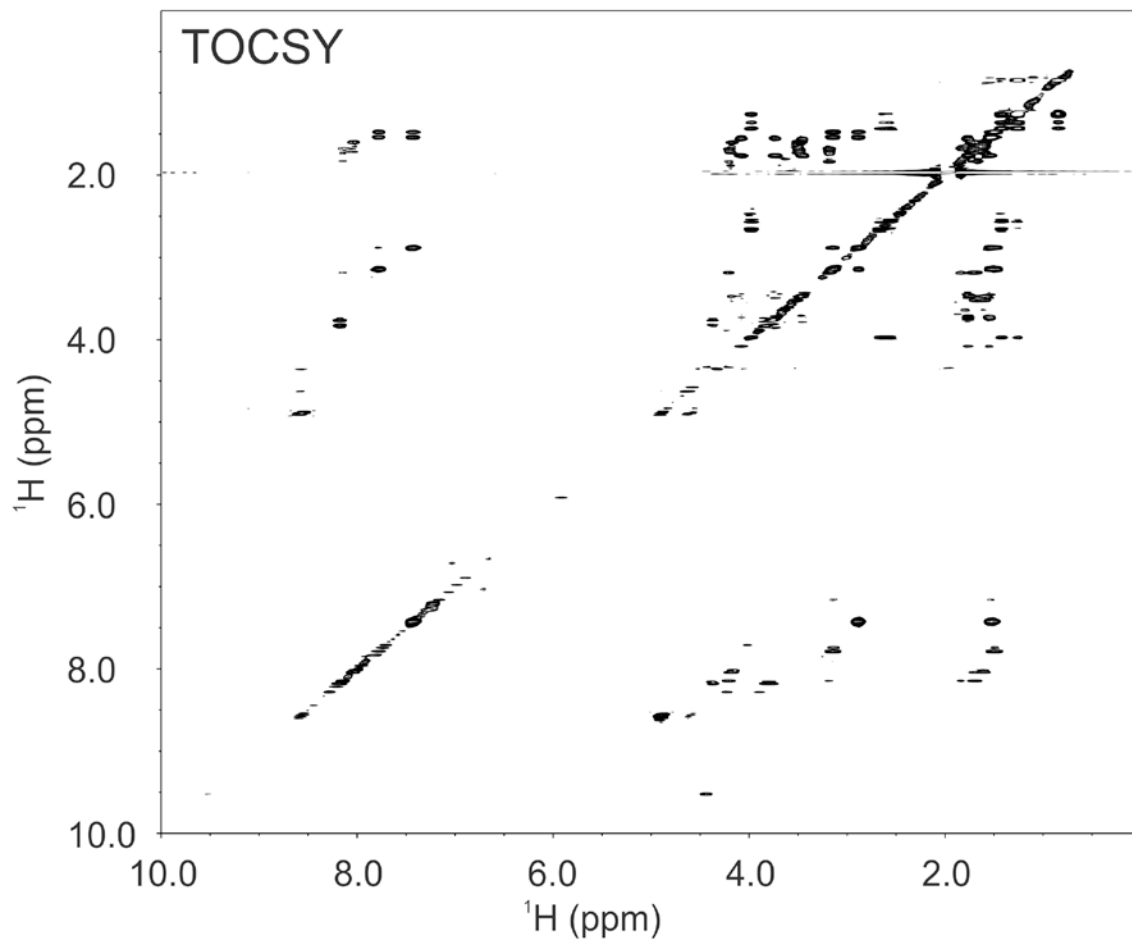


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31 **Suppl. Fig. 4.** COSY60 NMR Spectrum of Ornibactin recorded at 600 MHz in (50:50)32 acetonitrile- d_3 .

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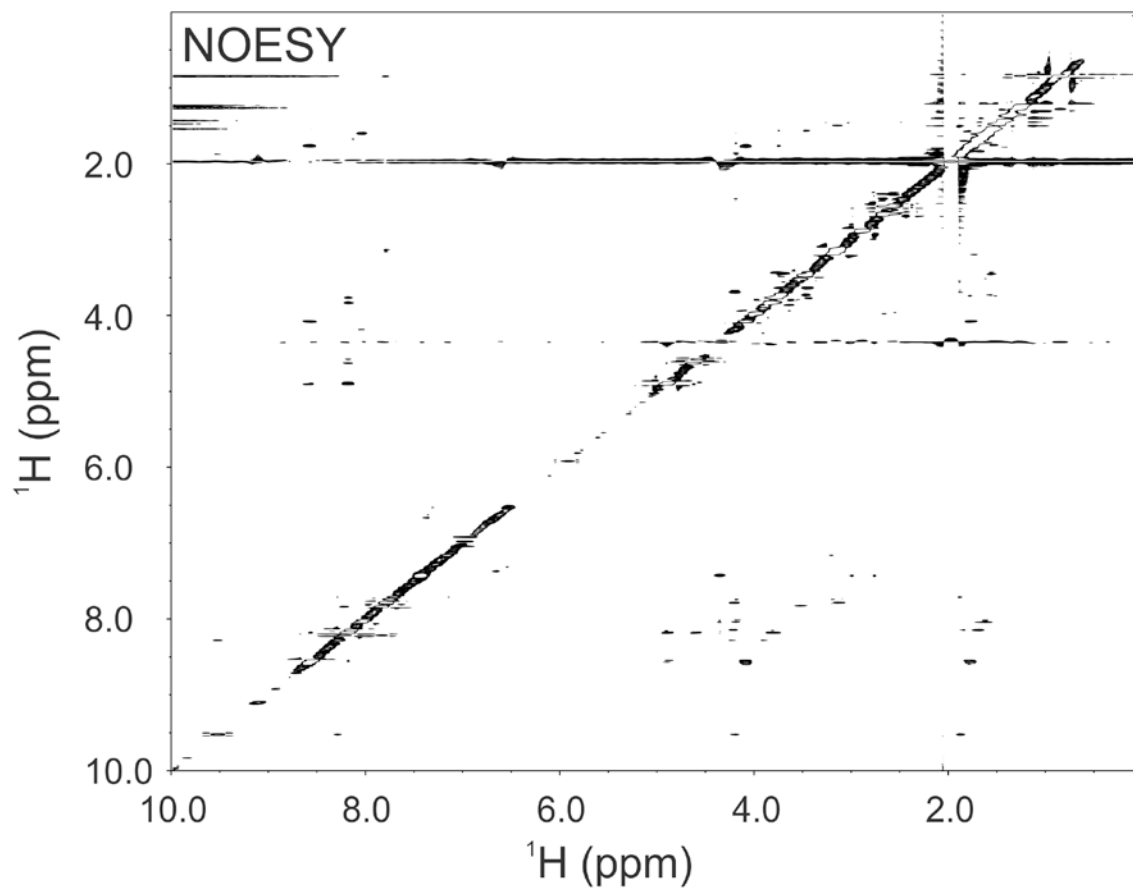
36 **Suppl. Fig. 5.** TOCSY60 NMR Spectrum of Ornibactin recorded at 600 MHz in (50:50)

37 acetonitrile- d_3 .

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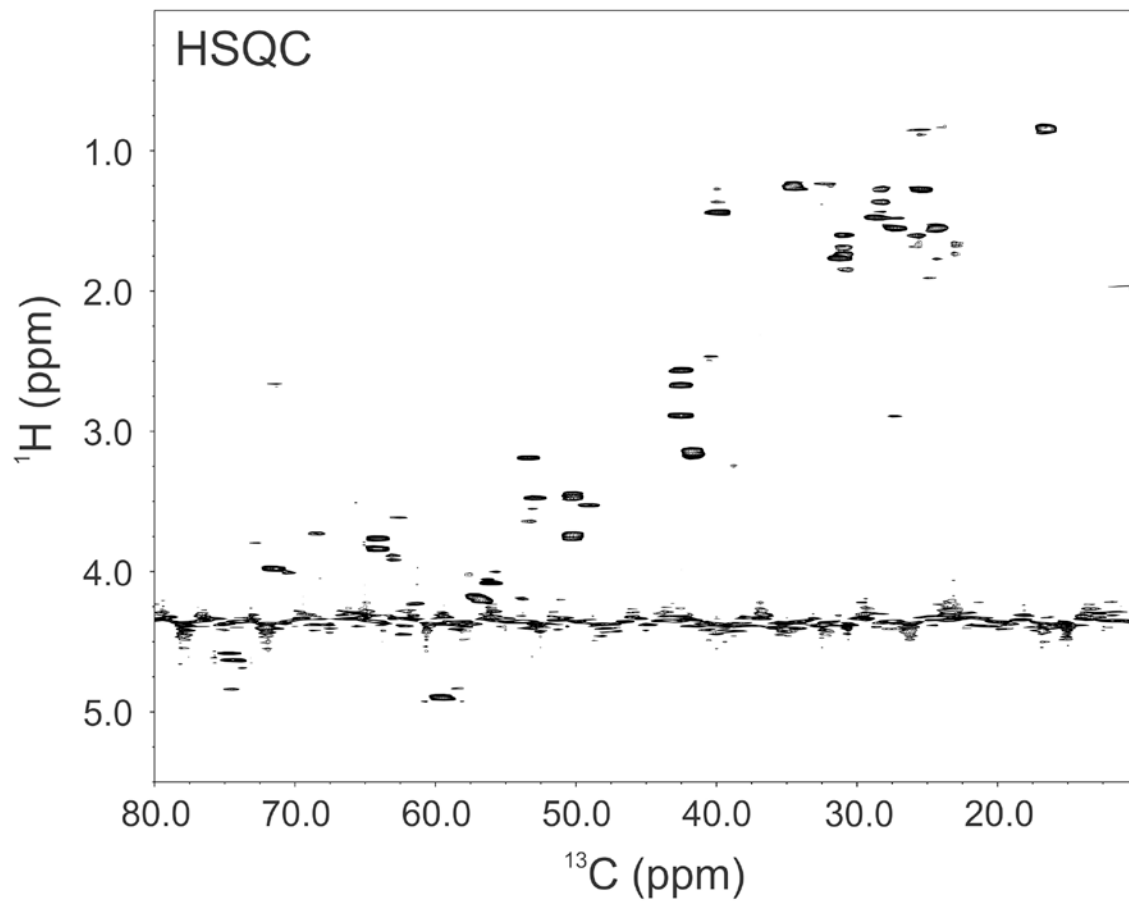


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42 **Suppl. Fig. 6.** NOESY400 NMR Spectrum of Ornibactin recorded at 600 MHz in (50:50)

43 acetonitrile- d_3 .

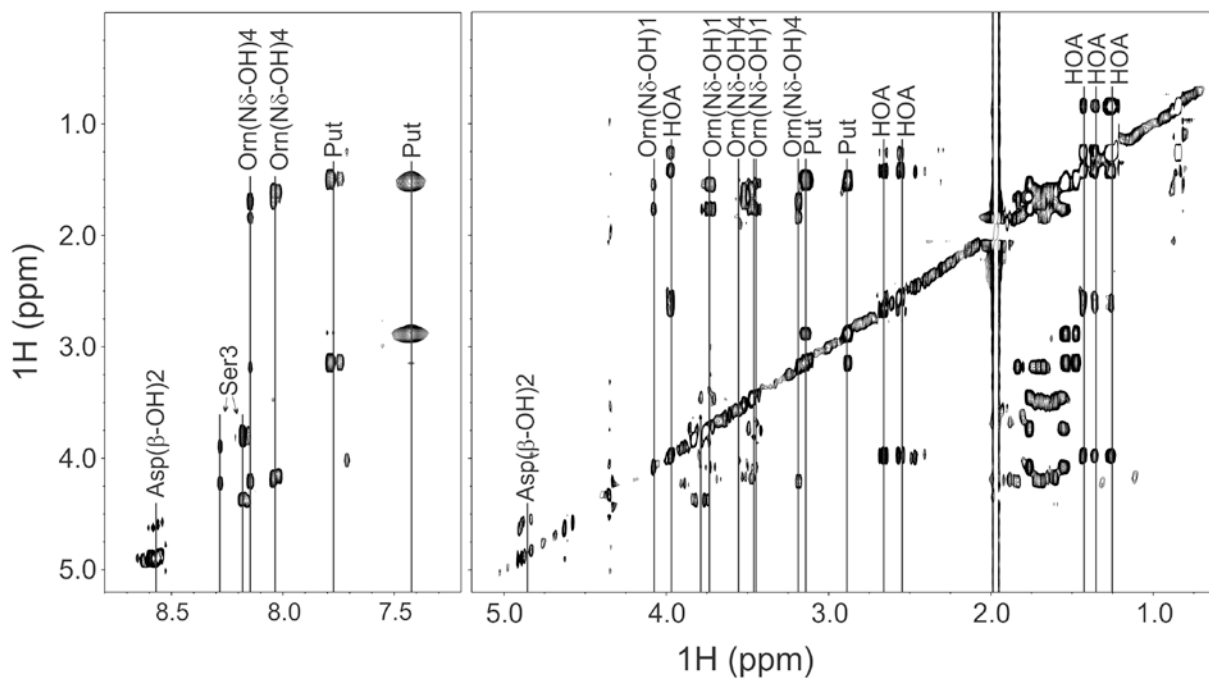
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46 **Suppl. Fig. 7.** ^{13}C -HSQC NMR Spectrum of Ornibactin recorded at 600 MHz in (50:50)

47 acetonitrile- d_3 .

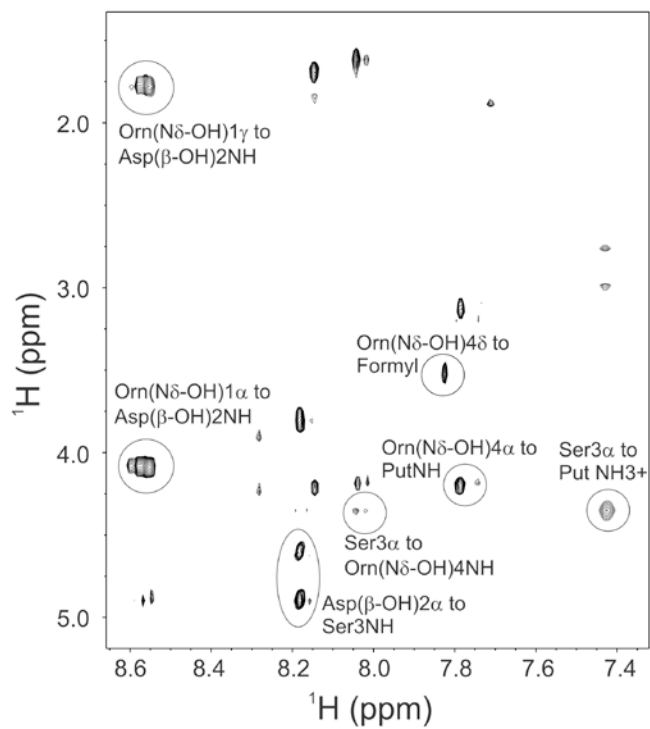


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49 **Suppl. Fig 8.** TOCSY spin system correlations of the siderophore product. Fingerprint
 50 region (NH correlations), alpha to side chain correlations and side chain correlations are
 51 shown. Abbreviation are: ornithine (Orn), putrescine (Put), and hydroxyoctanoic acid
 52 (HOA).

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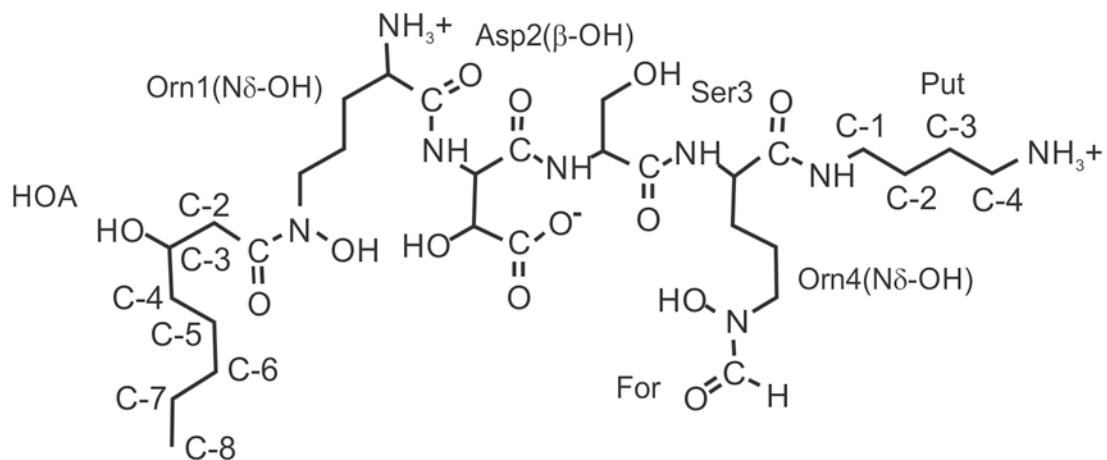


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56 **Suppl. Fig. 9.** Sequential NOE contacts in ornibactin-F found in NOESY spectra.

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60 **Suppl. Fig 10.** Covalent structure of ornibactin-F. The position of each amino acid is
61 labeled in the tetrapeptide. The location of the 3-hydroxyoctanoic acid (HOA), putrescine
62 (Put), and Nδ-formyl are demarcated.

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