Table S2. HPLC retention times of compounds tested in this work

DvLysin/YkfC substrate	HPLC conditions [a]	Retention time (min)	Corresponding products	Retention time (min)[a]
GlcNAc-1,6-anhydro-MurNAc-tetrapeptide (TCT)	A	32	- GlcNAc-anhydro-MurNAc-L-Ala-D-Glu - Dipeptide A_2pm-D-Ala	37 7
TCT dimer	A	45	- GlcNAc-anhydro-MurNAc-L-Ala-D-Glu - Tetrapeptide A_2pm(-D-Ala)-D-Ala-A_2pm	37 9.5
GlcNAc-MurNAc-tetrapeptide	A	21/24[b]	- GlcNAc-MurNAc-L-Ala-D-Glu - Dipeptide A_2pm-D-Ala	22/27[b] 7
Dimer of GlcNAc-MurNAc-tetrapeptide	A	31/34	- GlcNAc-MurNAc-L-Ala-D-Glu - Tetrapeptide A_2pm(-D-Ala)-D-Ala-A_2pm	22/27 9.5
anhMurNAc-tetrapeptide	A	27	- anhydro-MurNAc-L-Ala-D-Glu - Dipeptide A_2pm-D-Ala	33 7
MurNAc-pentapeptide	A	18.5/22.5	- MurNAc-L-Ala-D-Glu - Tripeptide A_2pm-D-Ala-D-Ala	19/23 9
MurNAc-tetrapeptide	A	17/21	- MurNAc-L-Ala-D-Glu - Dipeptide A_2pm-D-Ala	19/23 7
MurNAc-tripeptide	A	15/18	- MurNAc-L-Ala-D-Glu - A_2pm	19/23 5
MurNAc-tripeptide(Lys)	A	16.5/20	- MurNAc-L-Ala-D-Glu - Lys	19/23 5
UDP-MurNAc-tripeptide	A without gradient	18	- UDP-MurNAc-L-Ala-D-Glu - A_2pm	30 5
Pentapeptide	B	22	- Dipeptide L-Ala-D-Glu - Tripeptide A_2pm-D-Ala-D-Ala	13.5 11.5
Pentapeptide(Lys)	B	32	- Dipeptide L-Ala-D-Glu - Tripeptide L-Lys-D-Ala-D-Ala	13.5 15.5
Tetrapeptide	B	17.5	- Dipeptide L-Ala-D-Glu - Dipeptide A_2pm-D-Ala	13.5 9.5
Tripeptide	B	12.5	- Dipeptide L-Ala-D-Glu - A_2pm	13.5 5
Lactoyl-pentapeptide	A without gradient	27	- Lactoyl-L-Ala-D-Glu - Tripeptide A_2pm-D-Ala-D-Ala	19.5 9

[a]HPLC conditions:
A: Nucleosyl 100 5 µ C18 (250 × 4.6 mm); Elution with 50 mM sodium phosphate, pH 4.5, and application of a linear gradient of MeOH (from 0 to 25%) between 0 and 40 min, at a flow rate of 0.6 ml/min; detection at 207 nm or 262 nm.
B: ODS-Hypersil 3 µ C18 (250 × 4.6 mm); Elution with 0.05% TFA containing or not 5% methanol, at a flow rate of 0.6 ml/min; detection at 207 nm.
[b]Two peaks corresponding to the α and β anomers were observed for compounds having a reducing MurNAc group.