

S3 Table. Comparison of features belonging to NALs from different organisms.

Organism	K_M * (Neu5Ac) (mM)	Opt pH (Cond)	Opt pH (Clv)	Opt temp (°C) (Cond)	Opt temp (°C) (Clv)	Reference
<i>A. salmonicida</i>	53.9 ± 6.6	7.5-8.0	8.0-8.5	20	65	This work
<i>E. coli</i>	3.3 ± 0.1	-	6.5-7.0	-	80	[1]
<i>E. coli</i>	3.6	7.7	7.7	-	75	[2]
<i>C. perfringens</i>	1.75	-	7.2	-	-	[3]
<i>E. coli</i> K12	2.5 ± 0.3	7.5-8.0	7.5-8.0	-	-	[4]
<i>P. multocida</i>	4.9 ± 0.7	7.5-8.0	7.5-8.0	-	-	[4]
<i>L. plantarum</i> WCFS1	1.8 ± 0.1	7.0-7.3	7.0-7.3	60	70	[5]
<i>L. antri</i>	1.1 ± 0.1	6.0-7.0	7.0	60	60	[6]
<i>L. sakei</i>	0.3 ± 0.03	6.0	7.0	50	40	[6]
<i>S. carnosus</i> TM300	2 ± 0.3	7.0	7.0	50	60-70	[7]
<i>E. coli</i>	4.4 ± 0.3	-	-	-	-	[8]
<i>E. coli</i>	4.1 ± 0.2	-	-	-	-	[9]
<i>C. perfringens</i>	3.9	-	7.2	-	-	[10]
<i>C. perfringens</i>	3.2	-	7.6	-	65-70	[11]
<i>C. perfringens</i>	2.8	-	7.2	-	-	[12]
<i>C. glutamicum</i>	33.5	8.2-8.4	8.4-8.8	40	40	[13]
<i>Mycoplasma</i>	1.8	7.0	6.0-8.5	65	70	[14]

* All the K_M values have been obtained at 37°C.

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