

Supplementary Materials

Table S1. Gene sequences of lysin293 and the amidase domain, amidase293.

>Endolysin 1 (Full length), ORF 25, phage vB_LmoS_293, Coordinates: 19966..20916
MSVLQYNYINKNQFSRPGYKLLRVSKIVMHYTANPGASADNHRRYFRDLKERYASAHIFIDDNEAICIPLNEVAY
HANERSCKLTALQASTSYRGGNANLTSIGIEMCLDKNWNITAATFNRSVDVAAELCKTYDLTPSDIIRHYDVTG
KNCPAPWVAKPSELTRFRNAVNAKLKGASQKNRHDGKVVD SAPLLTKMDFKSSPFRMYKSGTEFLVYEHNQ
YWKTYIDDKLYMYKSFCDVVTKKDAKGRIKVRISAKDLRIPVWNNTKLSSGKIKWYAPNTKLAWYNNKGKY
LELWYPSDGWYYTANYFLKVDANSSPRH MATGKGAAASTQEGKSQPFKVTGPFPDPATWLEWSRQWQGTE
GNGHAAASGIPGLDALAGVKIAPAQLGDIQQR YMKDFSALWQAMAEGKAEATGPLHRRFAGDAWRTNLPY
RFAAAFYLLNARALTELADAVEADAKTRQIRFAISQWVDAMSPANFLATNPEAQRLIESGGESLRAGVRNM
MEDLTRGKISQTDES AFEVGRNVA VTEGAVVFENEYFQLLQYKPLTDKVHARPLL MVPPCINKYYIDLQPESSL
VRHVVEQGHTVFLVSWRNP DASMAGSTWDDYIEHAAIRAIEVARDISGQDKINVLGFCVGGTIVSTALAVLAA
RGEHPAASVTLLTLLDFADTGILDVFVDEGHVQLREATLGGGAGAPCALLRGLELANTFSFLRPNDLVWNYVV
DNYLKGNTPVPFDLLFWNGDATNLP GPWYCWYLRHTYLQNELKVP GKLTVC GVPVDLASIDVPTYIYGSREDHI
VPWTAAYASTALLANKLRFVLGASGHIAGVINPPAKNKRSHWTNDALPESPQQWLAGAIEHHGSWWPDWTA
WLAGQAGAKRAAPANYGNARYRAIEPAPGRYVKAKA

>Endolysin (Amidase Domain), ORF 25, phage vB_LmoS_293, Coordinates: 19966..20502
MSVLQYNYINKNQFSRPGYKLLRVSKIVMHYTANPGASADNHRRYFRDLKERYASAHIFIDDNEAICIPLNEVAY
HANERSCKLTALQASTSYRGGNANLTSIGIEMCLDKNWNITAATFNRSVDVAAELCKTYDLTPSDIIRHYDVTG
KNCPAPWVAKPSELTRFRNAVNAKLKGAVDANSSPRH MATGKGAAASTQEGKSQPFKVTGPFPDPATWLEW
SRQWQGTEGNGHAAASGIPGLDALAGVKIAPAQLGDIQQR YMKDFSALWQAMAEGKAEATGPLHRRFAG
DAWRTNLPYRFAAAFYLLNARALTELADAVEADAKTRQIRFAISQWVDAMSPANFLATNPEAQRLIESGGES
LRAGVRNMMEDLTRGKISQTDES AFEVGRNVA VTEGAVVFENEYFQLLQYKPLTDKVHARPLL MVPPCINKYYI
LDLQPESSLVRHVVEQGHTVFLVSWRNP DASMAGSTWDDYIEHAAIRAIEVARDISGQDKINVLGFCVGGTIVS
TALAVLAARGEHPAASVTLLTLLDFADTGILDVFVDEGHVQLREATLGGGAGAPCALLRGLELANTFSFLRPND
LVWNYVVDNYLKGNTPVPFDLLFWNGDATNLP GPWYCWYLRHTYLQNELKVP GKLTVC GVPVDLASIDVPTYI
YGSREDHIVPWTAAYASTALLANKLRFVLGASGHIAGVINPPAKNKRSHWTNDALPESPQQWLAGAIEHHGS
WWPDWTAWLAGQAGAKRAAPANYGNARYRAIEPAPGRYVKAKA

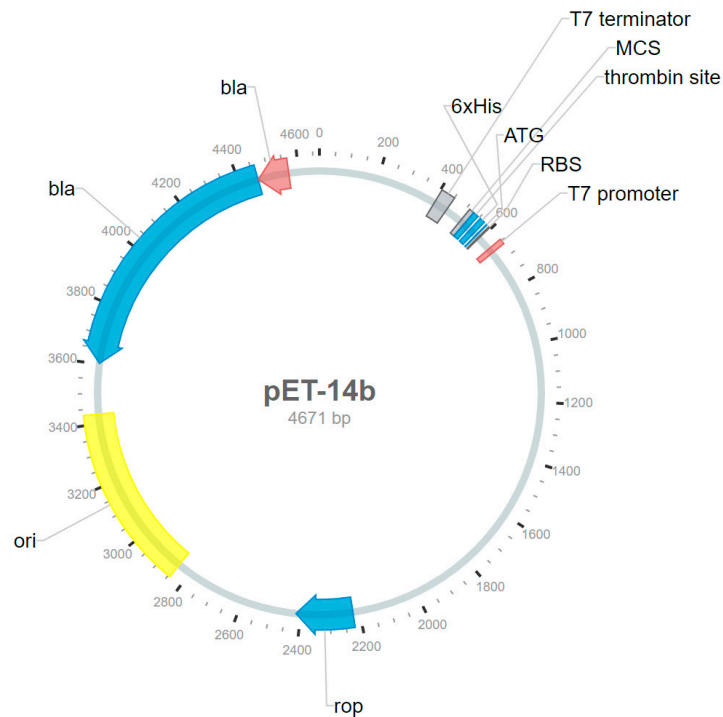


Figure S1: pET-14b vector used in this experiment.

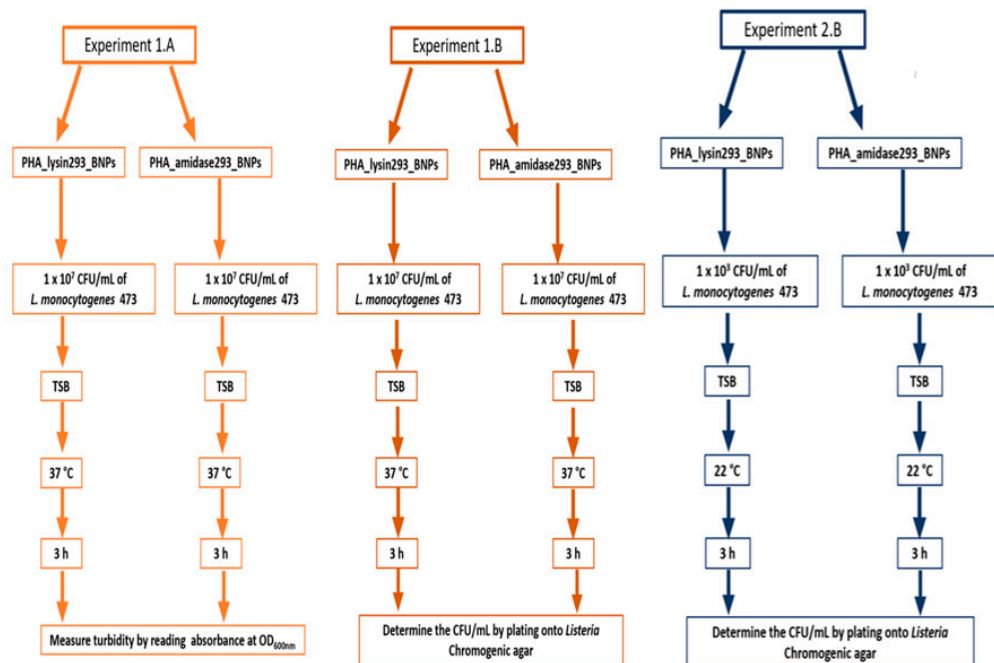


Figure S2: Flow chart depicting the experimental design of the assays. The flow chart shows the CFU/mL, temperature, incubation time, proteins used and the method to determine the CFU/mL or the turbidity of the samples in each experiment.