49353 nucleotide sequences of plasmids were downloaded from NCBI by using entrez query "NUCCORE:plasmid[Title]". Nucleotide sequences of toxin-antitoxin system genes were mapped by blastn program on the plasmid sequences. Database contained 49350 nucleotide sequences, because 3 were empty. Their accession numbers were MAP\_000031, MAP\_000032, MAP\_000033.

Blast hits were filtered with identity threshold values at 80%. If for toxin-antitoxin system gene hit was founded, it was considered as "toxin antitoxin system gene can be transferred by plasmid".