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(54) Title: NOVEL GARDNERELLA ENDOLYSINS AND USES THEREOF

(57) Abstract: The present invention relates to new species-selective phage endolysins and their use to treat bacterial vaginosis (BV). The present invention provides recombinant endolysins, i.e. domain- swapped endolysins. The invention also relates to said endolysins for use in treating diseases or disorders such as bacterial infections, in particular BV. The invention further relates to polynucleotides encoding said endolysins. Said polynucleotides can also be used for treating such diseases or disorders. Also provided by the present invention is a pharmaceutical composition comprising an endolysin of the invention for use in treating such diseases or disorders. Said endolysins, polynucleotides and pharmaceutical composition may be administered locally, in particular locally into the vagina.



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