17. A method for producing, optionally purifying and optionally freeze-drying a polypeptide as defined in claim 13, said method comprising the steps of:

i) producing said polypeptide in a cell as identified in claim 16 comprising a nucleic acid construct as defined in claim 14, optionally

ii) purifying said polypeptide, and optionally

iii) freeze-drying said purified polypeptide.

18. A method for producing a polypeptide with an enhanced lytic activity by treating a polypeptide as identified in claim 13 and/or a polypeptide as obtainable by the method of 17, wherein said method comprises the steps of:

i) dialyzing said polypeptide against a buffer comprisinging a chelating compound,

ii) dialyzing said polypeptide against a divalent metal ion-containing buffer, preferably said divalent metal ion being selected form the group consisting of Co^{2+}, Cu^{2+}, Mn^{2+} and Zn^{2+}.

19. A composition comprising a nucleic acid molecule as identified in any one of the claims 1 – 12, a polypeptide as identified in claim 13 and/or as obtainable by a method as identified in claim 17 and/or 18, and/or a nucleic acid construct as identified in claim 14 and/or a vector as indentified in claim 15 and/or a cell as identified in claim 16.

20. A composition according to claim 19, comprising one or more additional active ingredients, preferably selected from the group consisting of a bacteriophage and antibiotic.

21. A composition according to claim 19 and/or 20 for use as a medicament.

22. Use of a~~A~~ composition according to claim 21 ~~for use as~~ in the preparation of a medicament ~~in~~ for the treatment of an infectious disease

23. Use of a nucleic acid molecule according to any of the claims 1 - 12, a polypeptide according to claim 13, and/or as obtainable by a method as identified in claim 17 and/or 18, a nucleic acid construct according to claim 14, a vector as indentified in claim 15, a

cell as identified in claim 16 and/or a composition according to claim 19 and/or 20 as an antimicrobial, preferably as a food additive or a disinfectant.

24. Use of a nucleic acid molecule according to any of the claims 1 - 3, a polypeptide encoded by such nucleic acid molecule, a nucleic acid construct and/or vector and/or cell comprising such nucleic acid construct or a composition comprising any of such polypeptide, nucleic acid molecule, nucleic acid, vector and/or cell for detecting a *Staphylococcus*, preferably in a diagnostic application.

~~25. Method for treating, delaying and/or preventing an infectious disease by administering a composition as defined in claim 19 and/or 20.~~