

(54) Title of the invention : A Probiotic Vaccine for Preventing Coronavirus Infection and Preparation Method Thereof

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(57) Abstract :
 ABSTRACT: Title: A Probiotic Vaccine for Preventing Coronavirus Infection and Preparation Method Thereof The present disclosure proposes a probiotic vaccine for preventing coronavirus infection and the preparation method thereof. The gene coding for the SARS CoV-2 spike protein and the gene coding for the faulty RNA Polymerase are genetically engineered into a probiotic bacterium (like lactobacillus) by using the techniques like PCR, restriction digestion, and ligation. The proposed yoghurt vaccine (probiotic vaccine) can target all the existing mutant forms of SARS-CoV-2. This is designed by building a synthetic probiotic bacterium with genetic circuits built in a way that produces viral spike proteins that create an immune response in the body and thus lead to the production of antibodies. By consumption of this yoghurt vaccine, immunity against SARS-CoV-2 and its mutants can be obtained.

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