

Title (en)

IMMUNOPROTECTION BY ORAL ADMINISTRATION OF RECOMBINANT LACTOCOCCUS LACTIS MINI-CAPSULES

Title (de)

IMMUNSCHUTZ DURCH ORALE VERABREICHUNG VON MINIKAPSELN MIT REKOMBINANTEM LACTOCOCCUS LACTIS

Title (fr)

IMMUNOPROTECTION PAR ADMINISTRATION ORALE DE MINICAPSULES DE LACTOCOCCUS LACTIS RECOMBINANT

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Abstract (en)

[origin: WO2011079282A1] In one embodiment, the present invention provides for an edible mini-capsule form of live, non-persisting, recombinant Lactococcus lactis (L.lactis) vaccine against a pathogen such as the highly virulent influenza H5N1 strain. Enteric coated capsule of the present invention induced high levels of hemagglutinin-specific serum IgG and fecal IgA antibody production after oral administration in mice and chickens, and rendered complete protection against a lethal challenge of H5N1 virus in mice. The present invention thus demonstrates a broadly applicable platform technology for producing and administering edible vaccines against bacterial and viral infections.

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