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(54) Title: BOVINE COLOSTRUM DERIVED ANTIBODIES AND USES THEREOF

(57) Abstract: A method to produce immunoglobulin preparations against viral infection in humans spreading via respiratory route is provided. The method comprises the steps of immunizing dairy cows during a third trimester of at least a first gestation period with antigen proteins derived from at least one virus strain, collecting hyperimmune bovine colostrum comprising immunoglobulins effective against the antigen protein of various strains of the virus, preparing whey from the colostrum, isolating the immunoglobulin molecules from the whey, and preparing an immunoglobulin preparation for use as an intranasal treatment. One aspect of the invention is to produce SARS-CoV-2 spike protein specific hyperimmune bovine colostrum comprising a high concentration of anti-SARS-CoV-2 antibodies. An intranasal delivery system for diminishing risk of SARS-CoV-2 infections in humans is provided.



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