

(54) Title of the invention : A PROCESS OF PREPARATION OF NANOMINERAL SUPPLEMENT ORAL DISPERSIBLE FILM FOR AUGMENTING PRODUCTIVITY IN CATTLE AND PRODUCT THEREOF

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(57) Abstract :

TITLE: A PROCESS OF PREPARATION OF NANOMINERAL SUPPLEMENT ORAL DISPERSIBLE FILM FOR AUGMENTING PRODUCTIVITY IN CATTLE AND PRODUCT THEREOF APPLICANT: DR. K. GEETHA AND DR.N.ARULNATHAN ABSTRACT The present invention discloses a process of preparation of nano mineral supplemental oral dispersible film for augmenting productivity in cattle. The process of the present invention comprises of following steps; a. preparing a polymer solution comprises of mixing predetermined amounts of sodium alginate, glycerol, sweetening agent and water; b. preparing a nano mineral solution comprising of mixing predetermined concentrations of aqueous solutions of Nano zinc oxide, Nanocopper methionine, Nano seleno methionine, Nano dicalcium Phosphate and cobalt chloride; c. preparing a film dope comprising of mixing the polymer solution and nano mineral solution; d. subjecting the film dope to solvent casting to form a film followed by peel of the film to obtain nano mineral supplemental oral dispersible film. The present invention also discloses a nano mineral supplemental oral dispersible film for augmenting productivity in cattle, prepared by the process described above.

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