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(54) Title: BIODEGRADABLE PLANT PROTEIN HYDROGELS, USES AND PREPARATION THEREOF

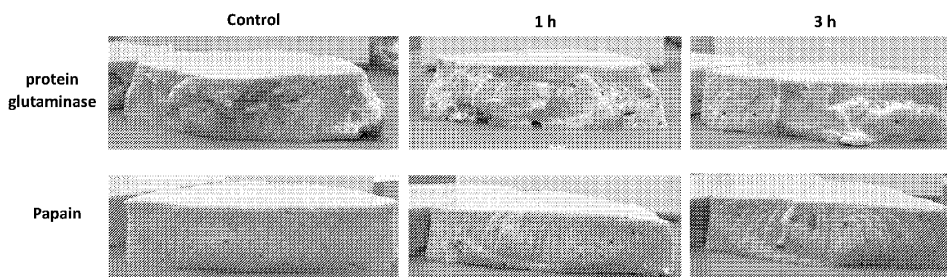


Fig. 7

(57) Abstract: A hydrogel comprising a plant-based protein and the agent is provided, wherein the agent is selected from a polysaccharide containing plurality of phenol-based rings, pectic polysaccharides, polysaccharide that possesses phenolic hydroxyl moieties, psyllium husk powder and psyllium seeds powder, or any combination thereof. The protein and agent are treated with different enzyme preparations for obtaining the crosslinked food product. Further, articles comprising the hydrogel of the invention are also provided. The hydrogel can be used as plant-based alternative for meat, eggs, fish, and dairy products.



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