

(54) Title of the invention : A TANNIN-RICH NUTRACEUTICAL BEVERAGE COMPOSITION FOR DIETARY MANAGEMENT OF ULCERATIVE COLITIS AND METHOD OF PREPARATION THEREOF

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## (57) Abstract :

The present invention relates to a standardized tannin-rich nutraceutical beverage composition comprising a synergistic combination of Punica granatum, Vitis vinifera, and Glycyrrhiza glabra along with nutritionally acceptable excipients, preservatives, sweeteners, diluents, or carriers. The composition is formulated as an orally consumable beverage standardized for total tannin and total phenolic content to provide reproducible phytochemical enrichment. The beverage exhibits synergistic anti-inflammatory, antioxidant, mucosal protective, gut microbiota-modulating, and colon-protective activity. Experimental evaluation in a Dextran Sulfate Sodium-induced ulcerative colitis model demonstrated reduction in occult blood score, prevention of body weight loss, normalization of stool consistency, reduction in disease activity index, and preservation of colon length. The invention further provides a method for preparing the beverage comprising pre-soaking, homogenization, filtration, addition of excipients and preservatives, and volumetric adjustment with an aqueous medium for obtaining a stable and standardized nutraceutical formulation.

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