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(57) Abstract :

The Ready to Use Herbal Edible Coating developed from corn starch by incorporating dried aqueous Tulsi (Ocimum sanctum) leaves extract and dried natural surfactant. The corn starch is a polysaccharide derived from Maize (Corn-Zea mays), have the ability to prevent the gases and moisture loss. Tulsi is useful and sacred herb which is used in medicinal purpose from many years. Tulsi leaves extract have many health beneficial properties such as antimicrobial, antioxidant, anticancer, antidiabetic, many others as well as it is act as natural preservative. Moreover the dried ber extract acted as a natural surfactant. Tulsi (O. sanctum), corn starch and dried ber extract are natural components of "Ready to use herbal edible coatingTM which is fit for human consumption and beneficial for human health and this is the unique or novel character of this invention. The ready to use herbal edible coating applied on fresh fruits and vegetables for enhancement of their shelf life and that is the main goal of this invention. The RTU herbal edible coating is applied as a thin layer by hand sprayer on fresh produces which act as a protective covering against microbes, moisture, gases (CO₂ and O₂) and physical damages. The RTU herbal edible coating is environment friendly, low cost and time saving product So, it is a good option to replace the polymer packaging and other techniques.

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