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## High quality sweet lime juice powder compositions with enhanced real fruit content and stability for food and cosmetic applications

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Fruits are important sources of vitamins and carbohydrates like fibre and sugar. They are low in calories and naturally sweet. Fruits and their juices are good sources of water too. Different fruits contain different vitamins, so it is important to eat a variety of fruits. Citrus fruits have been known to have many benefits both when taken internally and for external applications. Fresh fruit juices typically contain about 85-98% of water. This high-water content places a heavy burden on the packaging, handling, storing and shipping of such juices and has stimulated the development of many processes for the partial or complete dehydration of such juices. There are no or limited availability of real juice as most of the marketed ones have hardly 10-20% real fruit components. Due to the increasing statistics on metabolic diseases like diabetes, cancer, obesity etc., there is also an increased awareness on healthy living that includes majorly the diet and physical activity. Sweet limes come into season mostly during the rainy months from July to August, far before other orange varieties hit the shelves between October through November, and again from November through March. Our approach is that by drying fruit juices and components using innovative technologies we could extend the shelf life from around two weeks up to two years retaining more than 90% of the original nutritional value and makes it logistically simpler. Changing food habits in the country has increased consumption of fruit and fruit products and hence market for fruit juice powder has increased. This technology enables possibility to efficiently send the food not only to local soup kitchens, general market, hospitals and also to anyone struggling from malnutrition around the world. Formulations could be enhanced by adding other natural sources of protein and amino acids, vitamins to yield a complete nutrition supplement instant to use.

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