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# ABSTRACTS

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## ***GUMMY CANDIES AS AN ALTERNATIVE METHOD FOR DELIVERING ACTIVE PHARMACEUTICAL INGREDIENTS***

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### **Abstract:**

Traditional production of chewable candies with active pharmaceutical ingredients typically involves using a modular forming system with press molds in starch trays. However, this method has limitations in producing products with API:

- High temperature can adversely affect the stability of components
- Some manufacturers might use an excess of vitamins and other dietary ingredients to prevent API degradation
- Some API may have solubility issues or react unfavorably with other candy components, complicating precise dosing.
- Microbial contamination
- Product shape: manufacturing complex-shaped gummy products has been challenging due to the use of starch trays.

Innovative developments in this field aim to overcome these difficulties and expand opportunities for producing gummy products with APIs in the future. A notable starchless method involves forming gummy products in silicone molds using a vacuum boiling kettle and dosing system. This method helps avoid the negative impact of high temperatures on component stability and ensures accurate API content in products.

Seattle Gummy's patent for a new therapeutic chewable candy for allergy treatment demonstrates the potential significance of this type of production in the medical field and its ability to become a competitive medicinal product.

Advancements in producing gummy candies with API open up new horizons for the pharmaceutical and nutraceutical industries. They offer an alternative way of delivering active components with more appealing shapes and flavors for consumers.

**Key words:** *Vitamins, Gummy Candies, API, Dietary Supplements, Vitamin Delivery, Medicinal Remedy.*