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BIOTECHNOLOGICAL SYNTHESIS OF AN PROSTHESES DENTAL WAX, MODELING AND STICK

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ABSTRACT

Our current research includes the manufacture of artificial wax used in the field of dentistry by biotechnological processes, in multiple steps and stages, as an application for a specialized scientific study within realistic experiments In the end, she gave two types of artificial tooth wax (modeling and stick wax). The mechanism of producing artificial dental wax included successive processes that included biotechnology and industrial technology. In biotechnology, the oil stored in the seeds of the flax plant has been extracted, and transformed raw material (semisolid 30gm), added to other components consisting of various types of wax taken from various sources (Paraffin Wax, Bees wax, Carnauba wax, Sericin (mineral) wax) with fixed standard weights (50gm, 10gm, 20gm, 20gm) respectively, so that all components are melted in the water bath to form the raw wax that will be pure and free of impurities and ready for use in the manufacturing process. The industrial technique includes melting (9% of the raw wax), which produced from biotechnology with fixed percentages of solidified and stick materials that help with viscosity. When 8% solidified and 2% stick materials added, modeling wax resulted, while when 2% solidified material sand 8% stick materials added, stick wax resulted.

KEYWORDS: *Biotechnology, Industrial Technology, Modeling Wax, Stick Wax*