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Technology development of Bi/multilayer thin filmsNidhi P Sapkal¹, Anwar S Daud² and Minal N Bonde²¹Guru Nanak College of Pharmacy, India²Zim Laboratories Ltd, India

Thin films are ideal dosage form for pediatric, geriatric, dysphagic, mentally challenged and bed ridden patients. These films are thin, flat, elegant, rectangular shaped dosage forms that can be delivered by either oral sublingual or buccal route. In the market, most of the available products are single layered and belong to category of orally dissolving films. A few belong to sublingual and buccal category. The present technology yields monolayer films containing single or multiple actives but is not capable of delivering fixed dose combinations that are incompatible with each other. The present investigation describes technology development of thin films consisting of more than one layer. The final product looks like a single thin layer with different colors/shades/textures on both the sides. The method is capable of producing films with two, three or more layers depending upon the need of the product. These films are inseparable from each other during storage, handling and use and importantly, do not interact physically or chemically at the same time. The technology can also be used to deliver actives with different release profiles in thin film form or to deliver single active with different release profiles. This technology can be applied to many buccal or oral care products which require maintaining unidirectional flow of active into a particular direction. Thus, this is an important way to add more attributes to thin film technology.

Biography

Nidhi P Sapkal is an Academician and Industrial Consultant. She has completed her MPharm from Gujarat University and PhD from Nagpur University. Currently she is working as Professor in Department of Pharmaceutical chemistry, Guru Nanak College of Pharmacy. She is also Principal Research Coordinator at Zim Laboratories Limited, Nagpur. At Zim, she is actively contributing to research and development activities involving novel products and process technologies. She has about 25 research papers and 19 patent applications to her credit. She has delivered many invited lectures in various international conferences.

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