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(57) Abstract :

The invention relates to manufacturing of biodegradable, highly water-absorbing excipient with multiple uses using twin-screw hot melt extrusion. This excipient replaces synthetic and/or natural absorbent and lubricant used in the production of different solid, semi-solid and/ or liquid formulations due to the fact that it obtained from a natural source that is husk of Coconut, the fruit of Cocos nucifera which is co-processed with the at least one polyol compound, functions as both absorbent and lubricant in the same material. Therefore, this material is ideal for preparation of different solid, semi-solids and/or liquid formulations. It also avoids the need for large amounts of water to be evaporated during wet condition like wet granulation, saving production times and costs, especially in actives sensitive to humidity and heat. The biodegradable, highly water-absorbing excipient is suitable for use in pharmaceutical formulations.