

PAID DIPLOMA/ MASTER'S THESIS

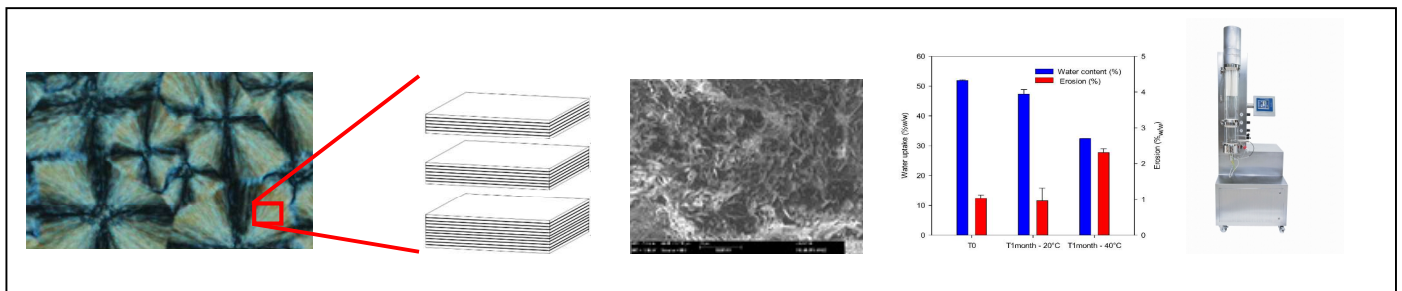
Hot Melt Coating of Multiparticulate Systems for Controlled Release Purposes

Ref.Nr. 118

To dedicated students of Pharmacy, Pharmaceutical Engineering, Chemical Engineering, or related disciplines, we offer an opportunity to write a paid Diploma/Master's thesis. The project is conducted in close cooperation with pharmaceutical and engineering industry.

OBJECTIVE:

The objective of this Diploma/Master thesis is to develop advanced hot melt coating formulations to provide i) enteric coating ii) controlled release multiparticulate systems targeting the elderly population. Fluidized bed hot melt coating will be used as manufacturing process. Lipid-based excipients will be used as coating material. The effect of coating composition and storage conditions on the release mechanism will be studied. Alteration in polymorphism, crystalline thickness and microstructure of coatings will be screened via differential scanning calorimetry (DSC), small and wide angle X-ray scattering (SWAXS) and polarized light microscopy. The surface porosity will be studied with BET measurements.



WITHIN THE FRAMEWORK OF THIS DIPLOMA/ MASTER'S THESIS WE OFFER THE FOLLOWING:

- Extensive participation in a top-level and industrially relevant research project in an international environment
- Supervised training in the task
- Assistance of experienced staff with the implementation of innovative ideas
- Access to highly modern infrastructure on campus of Graz University of Technology and University of Graz
- Assistance with the publication of results
- Adequate compensation and opportunities for personal and professional development

FINANCING: Compensation on the basis of a service contract

If you are interested in writing your thesis at the interface between university research and industry/business and to contribute to the optimization of product and process development in the pharmaceutical industry, please contact us indicating the reference number.

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