



University of Groningen

Protein delivery from polymeric matrices

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Document Version Publisher's PDF, also known as Version of record

Publication date:

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA):

Teekamp, N. (2018). Protein delivery from polymeric matrices: From pre-formulation stabilization studies to site-specific delivery. [Groningen]: Rijksuniversiteit Groningen.

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Download date: 12-11-2019

PROPOSITIONS

- 1. Addition of the polysaccharide pullulan to the gold standard in sugar glass technology, the disaccharide trehalose, substantially improves the performance at humid conditions. (this thesis)
- 2. Hot melt extrusion can be applied for the production of proteincontaining formulations by using low temperature processable polymers and sugar glass technology. (this thesis)
- 3. Systemic delivery of PDGFβ-receptor directed proteins using subcutaneously administered microspheres composed of phase-separated multi-block copolymers does not compromise their targeting properties. (this thesis)
- 4. Efficient delivery of drugs to diseased tissue can be achieved by utilizing the selectivity of proteins in the design of the drug carrier.
- 5. The complexity of therapeutically active proteins does not allow the use of model proteins during formulation development.
- 6. The reason that the implementation of Paul Ehrlich's concept of the Magic Bullet will never reach perfection is enclosed in its name.
- 7. Shared first authorship is not a halving of the work, but a synergy resulting in interdisciplinary research at its best.
- 8. Even the most well-prepared are not prepared for the amount of backup plans necessary during a PhD project.
- 9. De essentie van de Indische keuken is te vatten in wat heet heet



PROTEIN DELIVERY from POLYMERIC MATRICES

From pre-formulation stabilization studies to site-specific delivery

