



Universiteit
Leiden
The Netherlands

Development of a stratum corneum substitute for in vitro percutaneous penetration studies : a skin barrier model comprising synthetic stratum corneum lipids

Jager, Miranda Wilhelmina de

Citation

Jager, M. W. de. (2006, April 27). *Development of a stratum corneum substitute for in vitro percutaneous penetration studies : a skin barrier model comprising synthetic stratum corneum lipids*. Retrieved from <https://hdl.handle.net/1887/4373>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4373>

Note: To cite this publication please use the final published version (if applicable).

Chapter 2: The phase behaviour of skin lipid mixtures based on synthetic ceramides

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, W. Bras, M. Ponec, and J.A. Bouwstra
Chem. Phys. Lipids **124** (2003) 123-134
[http://dx.doi.org/10.1016/S0009-3084\(03\)00050-1](http://dx.doi.org/10.1016/S0009-3084(03)00050-1)

Chapter 3: Novel lipid mixtures based on synthetic ceramides reproduce the unique stratum corneum lipid organisation

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, W. Bras, M. Ponec, and J.A. Bouwstra
J. Lipid Res. **45** (2004) 923-932
<http://dx.doi.org/10.1194/jlr.M300484-JLR200>

Chapter 4: Modelling the stratum corneum lipid organisation with synthetic lipid mixtures: the importance of synthetic ceramide composition

M.W. de Jager, G.S. Gooris, I.P. Dolbnya, M. Ponec, and J.A. Bouwstra
Biochim. Biophys. Acta **1684** (2004) 132-140
<http://dx.doi.org/10.1016/j.bbamem.2004.05.001>

Chapter 5: Acylceramide head group architecture affects lipid organisation in synthetic ceramide mixtures

M.W. de Jager, G.S. Gooris, M. Ponec, and J.A. Bouwstra
J. Invest. Dermatol. **123** (2004) 911-916
<http://dx.doi.org/10.1111/j.0022-202x.2004.23477.x>

Chapter 5: Lipid mixtures prepared with well-defined synthetic ceramides closely mimic the unique stratum corneum lipid phase behaviour

M.W. de Jager, G.S. Gooris, M. Ponec, and J.A. Bouwstra
J. Lipid. Res. **46** (2005) 2649-2656
<http://dx.doi.org/10.1194/jlr.M500221-JLR200>

Chapter 7: Preparation and characterisation of a stratum corneum substitute for in vitro percutaneous penetration studies

M.W. de Jager, H.W.W. Groenink, J.A. van der Spek, J.H.G. Janmaat, G.S. Gooris, M. Ponec, and J.A. Bouwstra
Biochim. Biophys. Acta, in press

Chapter 8 : A novel in vitro percutaneous penetration model: evaluation of barrier properties with p-aminobenzoic acid and two of its derivatives

M.W. de Jager, H.W.W. Groenink, R. Bielsa i Guivernau, E.M. Andersson, N.S. Angelova, M. Ponec and J.A. Bouwstra
Pharm. Res., in press.

INCLUDED WITH KIND PERMISSION OF SPRINGER SCIENCE AND BUSINESS MEDIA.