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Authors: Pedro M. Castro, Flávia Sousa, Rui Magalhães, Victor Manuel Pizones Ruiz-Henestrosa, Ana M.R. Pilosof, Ana Raquel Madureira, Bruno Sarmento, Manuela E. Pintado



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Incorporation of beads into oral films for buccal and oral delivery of bioactive molecules

Pedro M. Castro^{1,2}, Flávia Sousa^{2,3,4,5}, Rui Magalhães¹, Victor Manuel Pizones Ruiz-Henestrosa^{6,7}, Ana M. R. Pilosof^{6,7}, Ana Raquel Madureira¹, Bruno Sarmento^{2,4,5}, Manuela E. Pintado^{1,*}

¹CBQF – Centro de Biotecnologia e Química Fina – Laboratório Associado, Escola Superior de Biotecnologia, Universidade Católica Portuguesa/Porto, Rua Arquiteto Lobão Vital, 172, 4200-374 Porto, Portugal

²CESPU, Instituto de Investigação e Formação Avançada em Ciências e Tecnologias da Saúde, Rua Central de Gandra 1317, 4585-116 Gandra-PRD, Portugal

³ICBAS - Instituto Ciências Biomédicas Abel Salazar, Universidade do Porto, 4150-180 Porto, Portugal

⁴i3S - Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Rua Alfredo Allen 208, 4200-393 Porto, Portugal

⁵INEB - Instituto Nacional de Engenharia Biomédica, Universidade do Porto, Rua Alfredo Allen 208, 4200-393 Porto, Portugal

⁶Departamento de Industrias, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Ciudad Universitaria, 1428, Buenos Aires, Argentina

⁷Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina

*mpintado@porto.ucp.pt

Highlights

- Experimental design allowed to optimize a formulation of guar orodispersible films
- Alginate beads formulation was also optimized by experimental design
- Formulations were not cytotoxic to TR146 human buccal cells
- Combination of films and beads offers an effective buccal caffeine permeability
- Developed formulation offers a controlled release of carried molecules

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