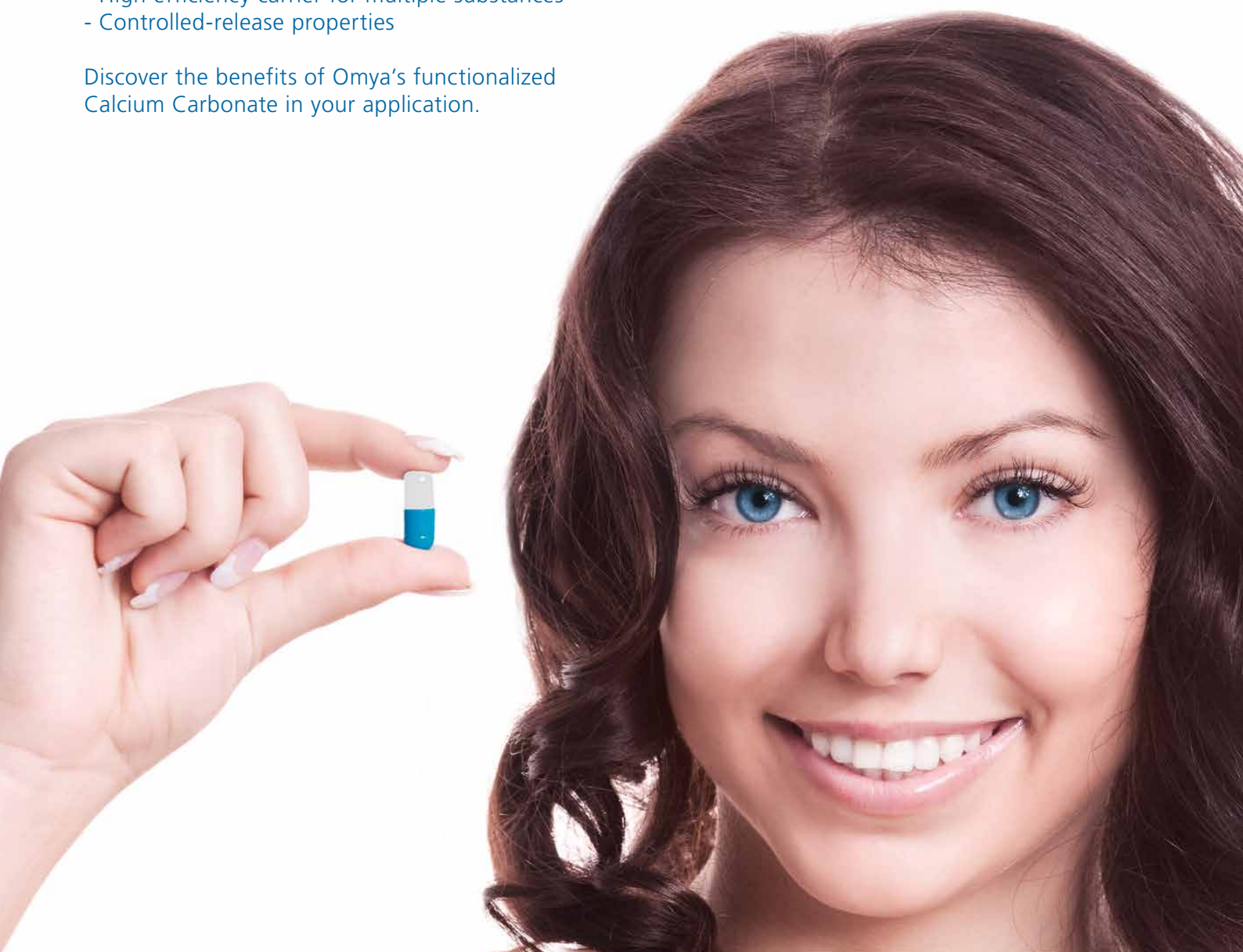


Omyapharm

A new generation of mineral excipient Functionalized Calcium Carbonate (FCC)

- Innovative functionalized excipient for pharmaceuticals
- High efficiency carrier for multiple substances
- Controlled-release properties

Discover the benefits of Omya's functionalized Calcium Carbonate in your application.



LIFE SCIENCES

- Personal care
- Oral care
- Food
- Pharmaceuticals



R&D

- Interdisciplinary
- Targeted
- Cost-oriented
- Research clusters



SERVICE

- Technical customer service
- Expert skills
- Analytics
- Pilot facilities



PRODUCTION

- Secure supply of raw materials
- State-of-the-art production facilities
- ISO-certified quality control



LOGISTICS

- Optimized supply chain
- Flexibility
- Distribution network
- Warehouses

Omyapharm

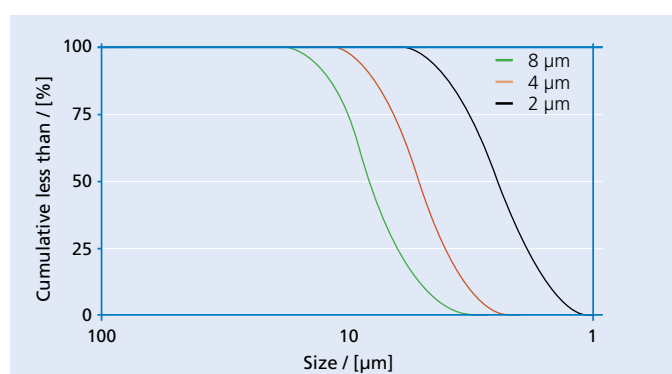
Advantages

- High loading capability
- Controlled release vector
- Direct compressible
- Stabilization of API's
- Dissolution enhancement

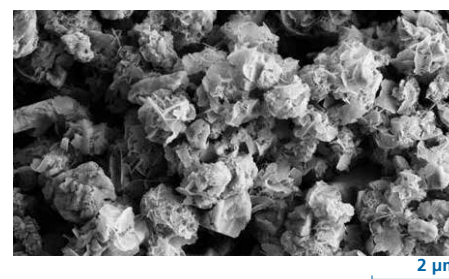
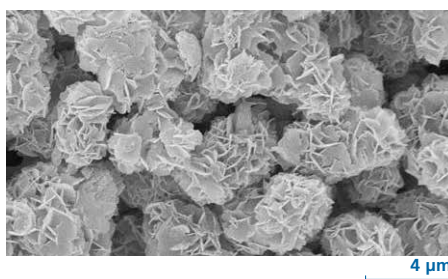
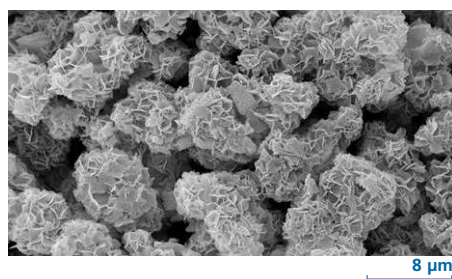
Available case studies

- Compaction^A
- Drug loading^B
- Gastroretention^C
- Orally Dispersible Tablets^D

Particle size distribution (laser diffraction)



- Size ranges from 2.5 to 10 µm
- Highly porous nature
- Surface areas range from 30-70m²g⁻¹



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(A) "Compaction of functionalized calcium carbonate, a porous and crystalline microparticulate material with a lamellar surface"

Tanja Stirnimann¹, Susanna Atria¹, Joachim Schoelkopf², Patrick A.C. Gane², Rainer Alles¹, Jörg Huwlyer¹

(B) "Functionalized Calcium Carbonate (FCC) as drug carrier. Evaluation of drug loading by solvent evaporation"

David Haid: University of Basel, Spring 2013, Department of Pharmaceutical Sciences. Advisors: Prof. Dr. Jörg Huwlyer, Dr. Maxim Puchkov, Supervised by Daniel Preisig

(C) "Functionalized Calcium Carbonate as a Novel Pharmaceutical Excipient for Preparation of Gastroretentive Drug Delivery Systems"

Veronika A. Eberle¹, Nicola Di Maiuta², Daniel E. Gerard², Rainer Alles¹, Jörg Huwlyer¹, Maxim Puchkov¹

(D) "Functionalized Calcium Carbonate as a Novel Pharmaceutical Excipient for the Preparation of Orally Dispersible Tablets"

Tanja Stirnimann¹, Nicola Di Maiuta², Daniel E. Gerard², Rainer Alles¹, Jörg Huwlyer¹, Maxim Puchkov¹

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