

## OPTIGEL<sup>®</sup> MINI TECHNOLOGY

### Deliver full-strength APIs in a smaller softgel capsule

OptiGel<sup>®</sup> Mini reduced fill technology can decrease capsule size by up to 30% to 50% vs. a standard softgel, enabling delivery of a full-strength dose in a consumer-preferred, smaller capsule.

As the leading innovator of softgel technologies, Catalent has over 80 years of experience in softgel development, delivery and supply to the global Consumer Health industry. With new OptiGel<sup>®</sup> Mini technology, we have developed the next generation in softgels that allows for higher API concentrations in smaller capsules.

### Key Benefits

#### OptiGel<sup>®</sup> Mini Technical Benefits:

- Enables higher API concentrations into smaller capsules
- Improves API absorption
- Increases performance of lipophilic and hydrophilic formulations
- Solutions to complex API formulation and development issues
- Flexibility to develop formulations for single API and API combinations
- Works with a wide range of APIs including low solubility APIs, free acids and free base APIs

#### OptiGel<sup>®</sup> Mini Consumer Benefits:

- Highly concentrated formula provides full strength dosage with smaller capsule size
- Potential to reduce capsule size by 30% - 50%
- Perceived consumer benefit of fast and effective relief
- Easier swallowing improves compliance, especially for pediatric and geriatric consumers
- Versatile softgel options available in a variety of colors, shapes, sizes and clarity



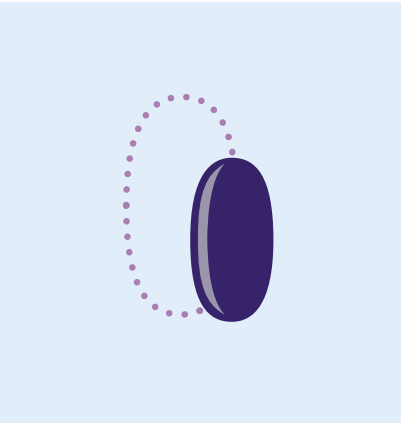
DEVELOPMENT



DELIVERY



SUPPLY



## An Optimal Solution for Multiple Categories

Our OptiGel® Mini technology can be an optimal solution for a wide range of OTC categories, including:



<b>ANALGESICS</b>	INCLUDING IBUPROFEN, NAPROXEN, ACETAMINOPHEN
<b>COUGH</b>	INCLUDING DEXTROMETHORPHAN, PHOLCODINE
<b>COLD</b>	INCLUDING PSEUDOEPHEDRINE, GUAIFENESIN, PHENYLEPHRINE, MENTHOL
<b>ALLERGY</b>	INCLUDING LORATADINE, CETIRIZINE, DIPHENHYDRAMINE, CHLORPHENYRAMINE, DOXYLAMINE
<b>DIGESTIVE HEALTH</b>	INCLUDING LOPERAMIDE

## Catalent's Development Expertise

- Preformulation and feasibility studies
- Softgel capsule fill formulation development
- Small-scale lab encapsulation to provide early stability data and final formulation selection
- Shell development
  - An extensive shell library with a wide variety of options for a range of products
  - Commercially proven shell library provides confidence in encapsulation scale-up
- Intellectual property (IP) protection, including fill formulations for improved bioavailability
- Extensive technical support in softgel capsule product development
  - Lipid-based systems including self-emulsifying micro/nano emulsion vehicle systems
  - Unique formulations potentially leading to patentable line extensions
- Reliable supply from clinical phases to commercial manufacturing
- Contingency planning and quality assurance via our large global network

Find out how we can help expand your OTC category offerings with OptiGel® Mini technology!

more products.  
better treatments.  
reliably supplied.™

**Discover more solutions at [consumerhealth.catalent.com](https://consumerhealth.catalent.com)**

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