

Soft lozenge: Experience the difference of Thermo Fisher Scientific's new patient-centric technology

Introduction

A soft lozenge is a type of oral pharmaceutical or nutraceutical product designed to dissolve in the mouth. It's typically intended to deliver active ingredients for various purposes and can address different health concerns.

Unlike traditional hard lozenges or pastilles, which are solid and tough to bite on, soft lozenges are designed to provide a relatively soft and soothing sensory feel upon dissolution in the mouth. This allows for a more comfortable and patient-friendly delivery of active ingredients.

Advantages of Thermo Fisher's proprietary soft lozenge patient-centric technology

1. Improved patient compliance:

- **Unmatched mouth comfort:**
 - More pleasant sensation in the mouth: less sticky, less hard, dissolves in mouth over time.
 - API taste masking and shell flavors for additional sensation.
- **Higher degree of adaptation to different patient populations:**
 - Sugar-free option.
 - Suitable for broader patient population e.g. children, seniors and patients with dysphagia.

2. **Targeted dissolution profile:** Possibility to provide different dissolution times in the mouth from 10-30 minutes.

3. **Compatible with many different APIs** and suitable for pharmaceutical and nutraceutical products.

Experience the difference of Thermo Fisher Scientific's proprietary patient-centric technology that delivers targeted dissolution, unmatched mouth comfort, and a sugar-free option for a wide range of therapeutic indications and patient populations, including children and seniors.

Thermo Fisher Scientific's softgel offerings

Portfolio of various market-leading proprietary technologies



Softgel sites overview: High Point (US), Tilburg (NL)

Best-in-class softgels manufacturing with footprints across North America and Europe

- Pharmaceuticals and nutraceuticals manufacturing.
- Development and manufacturing of high-potent compounds, hormones, and controlled substances.
- Formulation development for poorly soluble drug candidates and bioavailability enhancement.
- Taste-masking formulations for LiquiSoft®, Chewels® and soft lozenge dosage forms.
- Precise control of API dosing, release rate, and dose uniformity.
- Rapid upscaling from development (feasibility, clinical, registration) to commercial manufacturing.
- Regulatory strategy and support.
- Production capacities: 8-10 billion capsules in US and 2.5-3.5 billion capsules in EU.

About Thermo Fisher Scientific

Thermo Fisher Scientific provides industry-leading pharma services solutions for drug development, clinical trial logistics, and commercial manufacturing to customers through our Patheon brand. With more than 60 locations around the world, we provide integrated, end-to-end capabilities across all phases of development, including API, biologics, viral vectors, cGMP plasmids, formulation, clinical trials solutions, logistics services, and commercial manufacturing, and packaging. Built on a reputation for scientific and technical excellence, we provide pharma and biotech companies of all sizes instant access to a global network of facilities and experts across the Americas, Europe, Asia, and Australia. We offer integrated drug development and clinical services tailored to fit your drug development journey through our Patheon™ Quick to Care™ program. Our Patheon™ Quick to Clinic™ programs for large and small molecules help you balance speed and risk during early development so you can file your Investigational New Drug Application (IND) quickly and successfully. Digital innovations such as our mysupply Platform and Pharma 4.0 enablement offer real-time data and a streamlined experience. Together with our customers, we're rapidly turning pharmaceutical possibilities into realities.

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