



# MICROCAPS<sup>®</sup> OUTPERFORMS STANDARD BEAD INTERMEDIATE FORMULATIONS



"Adare's technologies are incredibly robust and have the ability to solve more than one issue at a time. I firmly believe this is due to Adare's culture of anticipating patients' needs and our desire to ensure medications are a positive part of their care."

**Luigi Boltri** | Senior Director Pharmaceutical Sciences, Business Support & New Technologies

## The Challenge

A particularly bitter pediatric macrolide in powder form was brought to Adare for needs beyond just taste masking. The API also needed:

- Fast release due to a narrow absorption window
- A smooth syrup mouthfeel acceptable to children and infants
- Over seven days of taste masking after suspension
- Drug loading suitable for its high dose

## The Solution

Our scientists paired the API with Adare Pharma Solutions' Microcaps<sup>®</sup> taste-masking technology and were coated with a pH-dependent polymer. Rapid release was demonstrated in vitro and in vivo testing, achieving the targeted bioequivalence. The API's particle size distribution (PSD in the range of 100-200 $\mu$ ) remained virtually the same minimizing any possibility of a gritty mouthfeel while also achieving over 10 days of taste masking in extemporaneous suspension. A high drug load of up to 70% was also achieved.

## The Outcome

Adare's double coated Microcaps<sup>®</sup> particles were combined with an excipient mixture providing the appropriate pH and palatability to the extemporaneous suspension. By pairing the API with Adare's industry leading Microcaps<sup>®</sup> technology all requirements were met and, in most cases, exceeded.





## TRANSFORMING DRUG DELIVERY. TRANSFORMING LIVES.

**Adare Pharma Solutions** is a global technology-driven CDMO providing end-to-end integrated services, from product development through commercial manufacturing and packaging, with small molecule expertise focusing on oral dosage forms. Adare's specialized technology platforms provide taste masking, controlled release, solubility enhancement, and patient-centric dosing solutions. With a proven history in drug delivery, Adare has developed and manufactures more than 65 products sold by customers worldwide.

Connect with our experts today: [BusDev@adareps.com](mailto:BusDev@adareps.com)

**ADARE**<sup>®</sup>  
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