



DRcaps acid resistant hypromellose capsules

Balance between protection and targeted release



CAPSUGEL®

Change the competitive landscape with targeted release solutions.

Best-in-class nutritional healthcare companies are continuously seeking innovative advantages in today's globally competitive marketplace and want products that:

- Stand out on a crowded store shelf based on performance enhancements that clearly differentiate them from the competition
- Deliver healthy and natural messages that increase product appeal in high growth market categories, such as probiotics, enzymes and sports nutrition

To accomplish these goals, many companies are looking at delayed release properties that can help give their products an added edge and the vitality needed to spur growth. However, adding this product feature can be challenging.



The challenge of oral ingredient delivery.

Harsh Acidic Environment of the Stomach Can Negatively Affect:

- Acid-sensitive ingredients
- Moisture-sensitive ingredients
- Reflux-prone components

Conventional Approaches Have Too Many Drawbacks:

- Costly and cumbersome enteric coating processes
- Use of chemicals and solvents do not fit with today's 'healthy and natural' image
- Application of heat during coating processes can have a detrimental impact on ingredients

DRcaps capsules protect ingredients and deliver results.

DRcaps capsules offer an elegant and timely solution for the nutritional health market by helping protect ingredients from stomach acidity. With DRcaps capsules, no costly coatings are needed to mask taste and odor. DRcaps capsules eliminate the cost and complexity of adding acid-resistant properties during manufacturing. And DRcaps capsules mask taste and minimize the risk of bad aftertaste.

Benefits

- Protects your sensitive ingredients from full disintegration in the stomach
- Capsule disintegration is targeted for the small intestine
- Mask taste and odor in a consumer-preferred capsule dosage form



Wide Array of Applications

- Helps protect ingredients that are sensitive to acid or moisture
- Excellent for products prone to reflux such as garlic or valerian

Eliminate Two of the Chief Causes of Shortened Shelf Life – Heat and Moisture

- Low moisture capsule ideal for moisture sensitive ingredients
- Replace the abuses of coating processes with simple capsule filling

Appeals to Multiple Market Segments

- Vegetarians – DRcaps capsules are derived from a plant-origin HPMC polymer
- Individuals that purchase only Kosher certified products
- Consumers seeking clean label products

Shorter Product Development Cycle

- Capsules arrive ready-to-use
- Quickly launch line extensions of existing products
- Capsugel capsule design offers high productivity on filling machines
- Expert technical service and support

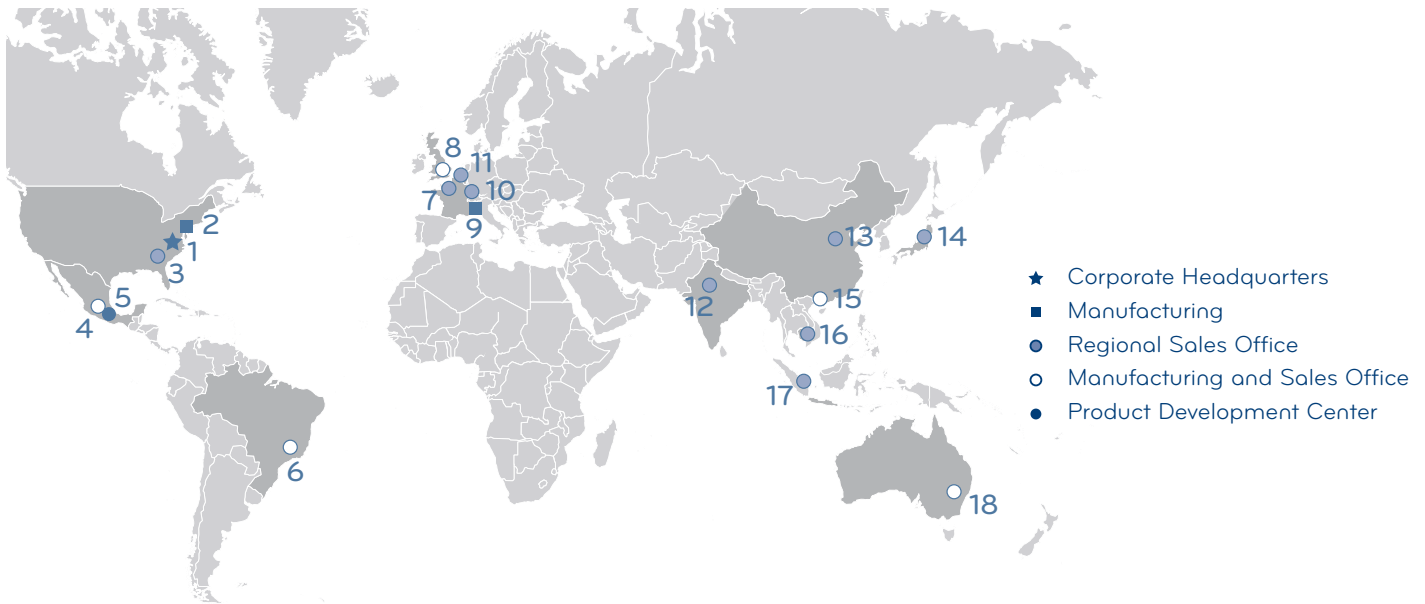
Key Performance Claims

- ✓ New & Improved
- ✓ Acid Resistant
- ✓ Slower to Dissolve Than Gelatin or Standard HPMC
- ✓ Minimize the risk of bad aftertaste



**Kosher
Certified**
U





1. Peapack, NJ · 2. Boston, MA · 3. Greenwood, SC · 4. Mexico City · 5. Puebla, Mexico · 6. Rio de Janeiro · 7. Ploërmel, France ·
 8. Cambridge, UK · 9. Strasbourg, France · 10. Colmar, France · 11. Bornem, Belgium · 12. Delhi, India · 13. Suzhou, China ·
 14. Sagmihara, Japan · 15. Hong Kong · 16. Bangkok, Thailand · 17. Jakarta, Indonesia · 18. Sydney, Australia

Success Requires More Than Just a Great Capsule

With a commitment to innovation, Capsugel offers:

- Extensive global supply capability
- State-of-the-art process controls
- Formulation support, technical support and filling/sealing equipment
- ISO, GMP, Kosher and Vegetarian Society certifications

For more information contact us at marketing.amer@pfizer.com