



The fast-disintegrating premium vegetarian delivery solution.

HPMC



Moisture-Sensitive Ingredients



The more natural alternative for demanding consumers.

Pullulan from naturally fermented tapioca.



Oxygen-Sensitive Ingredients



The plant-based capsule designed to release when you need it.

HPMC



Acid-Sensitive Ingredients



The sturdy standard for vegetarian offerings worldwide.

HPMC



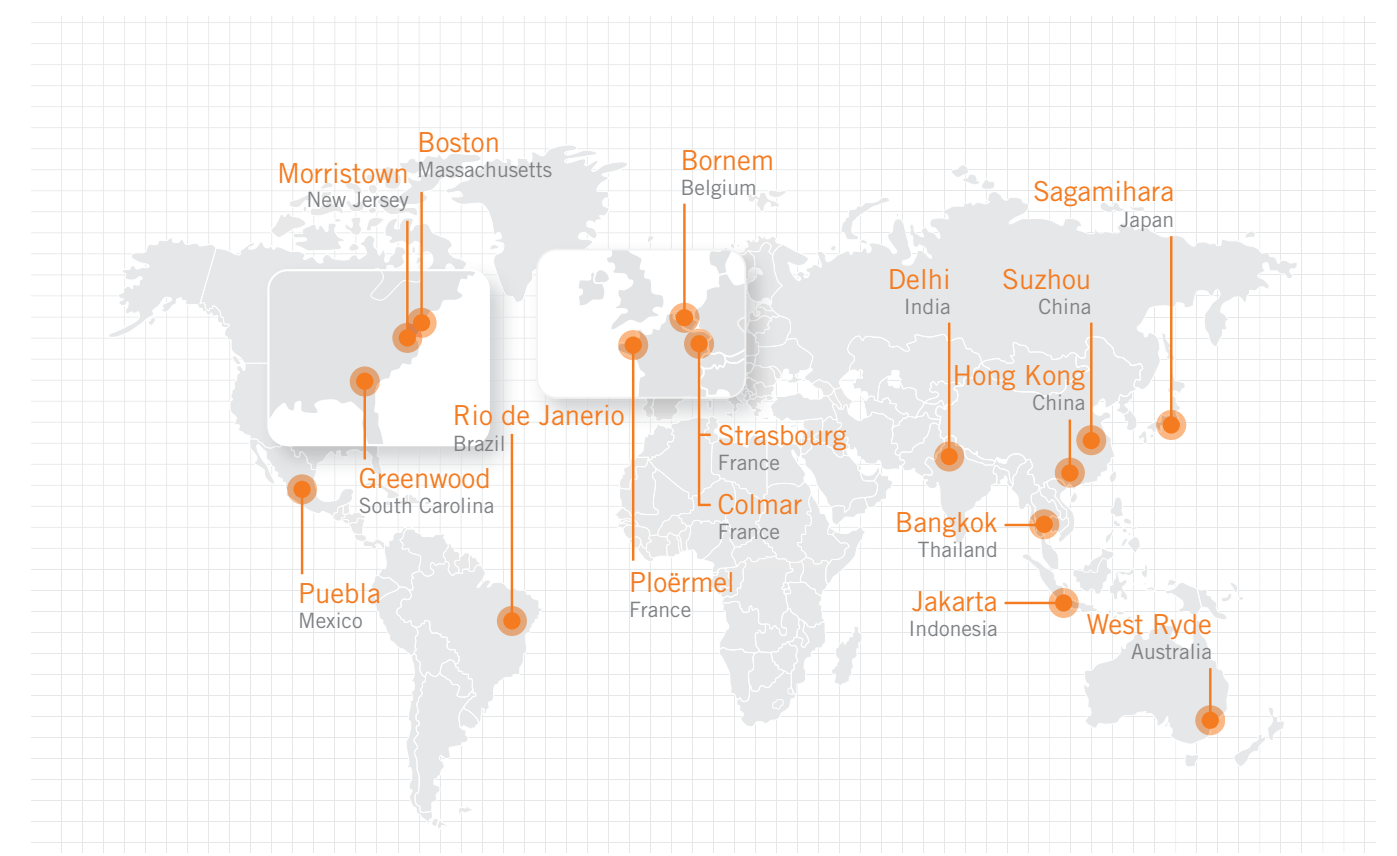
Moisture-Sensitive Ingredients

## Success requires more than just a great capsule.

Capsugel is known and trusted for superior capsules. But our support services are just as important. We complement our product lines with a wide range of support services that can maximize your product's potential.

- Extensive global supply capability
- Meticulous raw materials sourcing coupled with certified quality assurance and traceability
- State-of-the-art-facilities for product development and manufacturing
- Local market regulation expertise and adherence support

For more information, visit [capsugel.com](http://capsugel.com).



Copyright © 2012 Capsugel Belgium NV All rights reserved.



As the healthy lifestyle market grows, so does our portfolio.

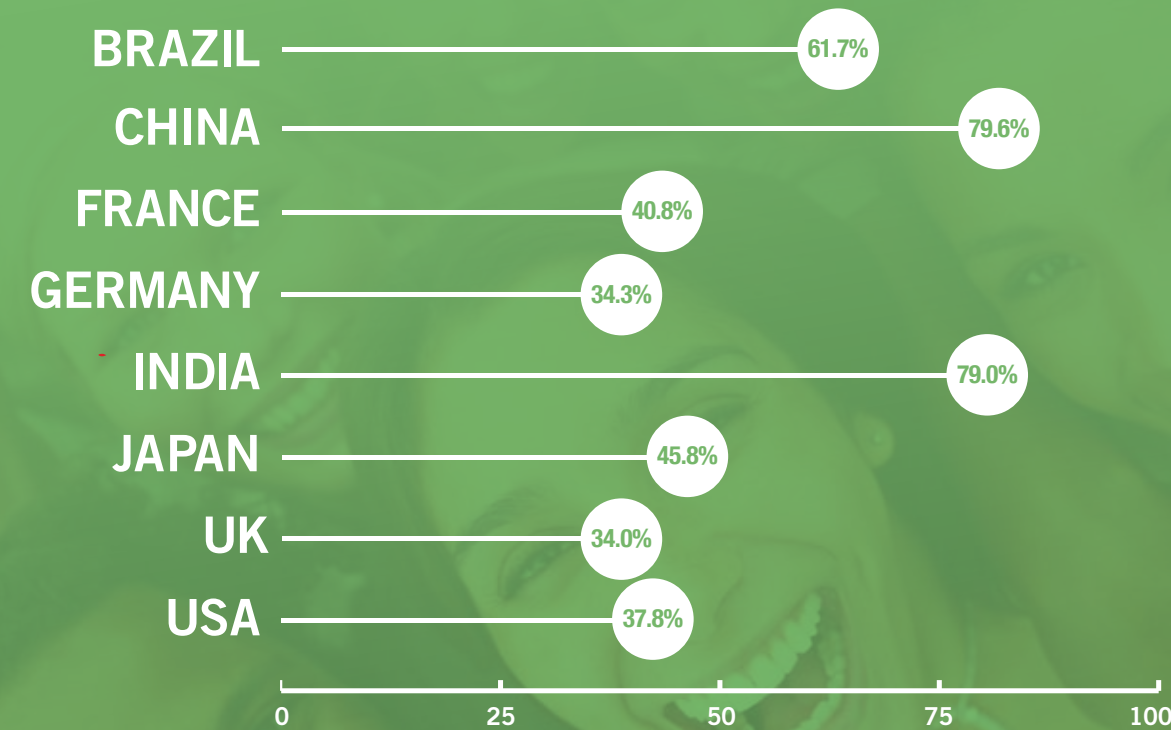
# The Vegetarian Supplement Market Continues to Grow.

Today's supplement consumers are more discerning and informed than ever before. They are young, diverse and global. And they are growing in number. Compared to 10 years ago, 90% of heavy supplement users are taking more responsibility for their health. In the U.S., 35% of supplement users say that vegetarian is important when choosing a supplement, up from 26% in 2006. They want non-animal products with no artificial chemicals, pesticides or preservatives. Consumer characteristics also include:

- Vegetarian-aware consumers take more supplements than the general population: an average of 3.1 per day versus 2.4
- 63% report that they prefer to buy supplements that have a specific health claim
- This group has a high interest in preventing and treating specific conditions with supplements
- 54% are brand loyal to the supplements they use and regularly purchase those same brands

To meet this rising demand, Capsugel has developed the largest plant-based portfolio on the market. We have more than 100 years' experience and invest heavily in R&D to offer a more natural alternative, so supplement manufacturers, marketers and distributors can take full advantage of the growing vegetarian market.

## MORE GLOBAL CONSUMERS ARE WILLING TO PAY EXTRA FOR NATURAL PRODUCTS.



Proportion of respondents selecting 'Agree' or 'Strongly Agree' on a scale from 1=Strongly Disagree to 5=Strongly Agree

\*Euromonitor: Annual Study 2011; Green Influences Jan. 2012; V=20,000



### VCAPS® PLUS CAPSULES

The fast-disintegrating premium vegetarian delivery solution.

Vcaps® Plus capsules offer the same great vegetarian benefits of Vcaps® capsules with beautiful branding due to their luster and color options. Their shiny surface reinforces a feel of 'high-end' swallowability and they dissolve just like gelatin for fast-release performance—important to the experienced and educated supplement consumer engaged in timed supplementation. They are made of just two components: plant-based HPMC and water. They are a globally acceptable premium vegetarian capsule, and in Europe they are approved for use with organic ingredients. Vcaps Plus capsules have Kosher and Vegetarian society certifications.

#### APPLICATIONS

- Herbs & Hygroscopic
- Energy products
- Amino acids
- OTC categories
- Eligible for organic label language (EU)

#### FORMULATION BENEFITS

- Premium gelatin-like dissolution performance
- Physically stable polymer is resistant to stringent heat and humidity conditions
- Low-moisture content suitable for moisture-sensitive ingredients



### PLANTCAPS™ CAPSULES

The more natural alternative for demanding consumers.

Plantcaps™ capsules provide the premier balance of performance and purity for the most discerning healthy lifestyle consumers. They are made of pullulan produced from tapioca through a natural fermentation process, which makes them ideal for vegetarian-minded consumers who are passionate about living a pure, organic-minded lifestyle. They have Kosher and Halal certifications and Vegetarian Society approval and are suitable for the Asian regulatory environment, especially for use in Japan. Plus they have the best oxygen barrier properties of all capsules.

#### APPLICATIONS

- Oxygen sensitive – Ubiquinol
- Vitamin C
- Eligible for organic label language (USA)

#### FORMULATION BENEFITS

- Disintegration / dissolution profile equal to gelatin
- The best oxygen barrier properties of any vegetarian capsule material
- Non-reactive shell can help eliminate "spotting" concerns; works well with Vitamin C



### VCAPS® CAPSULES

The sturdy standard for vegetarian offerings worldwide.

Vcaps® capsules are the long-established, best-selling vegetarian capsule in the world—meeting the needs of a wide variety of health-conscious consumers. Both KO and OU Kosher and Halal certification, and certified by the Vegetarian Society, they are an appealing way to address the preferences of an important growing group of supplement users who indicate that vegetarian source is important in their decision making. Vcaps capsules are non-GMO, gluten-free and preservative-free—a very clean-label product.

#### APPLICATIONS

- Herbs & Hygroscopic
- Minerals
- Combination products

#### FORMULATION BENEFITS

- Physically stable polymer is resistant to stringent heat and humidity conditions
- Low-moisture content suitable for moisture-sensitive ingredients



### DRCAPS™ CAPSULES

The plant-based capsule designed to release when you need it.

DRcaps™ capsules offer the features and benefits of Vcaps® capsules with an added delay in disintegration. They are ideal for products that need thirty minutes of protection from disintegration in an acid environment like probiotics, enzymes or strong smelling powders—and provide performance without coatings or other chemical additives to reduce manufacturing costs and complexities. They also provide maximum taste-masking and reduce the after-taste effect.

#### APPLICATIONS

- Probiotics
- Enzymes
- Strong smelling ingredients such as garlic

#### FORMULATION BENEFITS

- Well suited for moisture-sensitive ingredients
- Masks taste and odor and minimizes risk for repeat in a consumer-preferred dosage form
- Allow for a shorter product development cycle than tablets

