

Nutra'V Slow



Hard two-piece HPMC
capsules for consumer
healthcare applications

Delayed-release,
plant-based capsule
for the protection and
delivery of beneficial
ingredients



 **Qualicaps**



Nutra'V Slow capsules are specifically designed to target moisture-sensitive and acid-labile ingredients by slowing down capsule rupture and release of contents.

Offering additional protection of ingredients from stomach acidity, Nutra'V Slow capsules facilitate product benefits thanks to a more appropriate delivery, while reducing the risk of unpleasant odors, aftertaste and reflux.



Delayed Release



Clean Label

**Free of allergens, gluten,
GMOs, preservatives, sugar*



Easy to Swallow



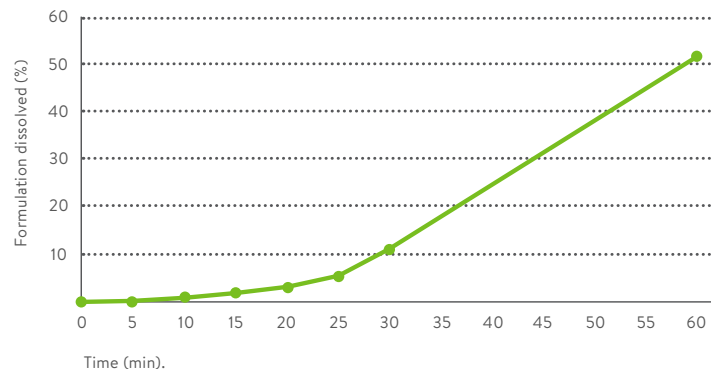
Masks Taste and Odor



*Manufactured in a cGMP
Compliant Facility*

With differentiated features that make these capsules ideal for a broad range of nutraceutical and nutritional applications. Nutra'V Slow meet the increasing clean-label demands of healthconscious consumers, as well as the specific dietary needs of vegetarians and vegans.

- Slow dissolving product, retarding the release of ingredients.
- 100% plant based; free of animal origin.
- Low moisture content ($\leq 6.5\%$), so little to no brittleness upon drying and less moisture transfer with capsule fills. Ideal for moisture sensitive ingredients to enable a delayed dissolution into the gastric-intestinal tract.
- Coating-free capsule; there is no need to add chemicals, solvents or other external protection to enable its delayed-release capability.
- Constant solubility in liquids over a broad range of temperatures, so products can be taken with either warm or cold drinks.
- Band-sealing suitable for liquid fills to prevent against leakage and provide tamper evidence.
- Excellent performance on high-speed capsule filling machines.
- Free of allergens, gluten, GMOs, preservatives or sugar.
- Nutra[®]V Slow capsules are suitable for organic applications and can be used with organic ingredients*.
- 3-year shelf life
- Diversity of size, color and printing options for differentiation in final product dressing.



Applications:

- Acid-sensitive ingredients
- Reflux-prone ingredients
- Moisture-sensitive ingredients
- Probiotics
- Enzymes

Contact our Scientific Business Development experts regarding our specific capsule portfolio, as well as for support during every stage of product development design.

Our **Technical Service Engineers** can assist and give on-hand support in achieving productivity yields in capsule filling.

**Please contact us for additional information.*

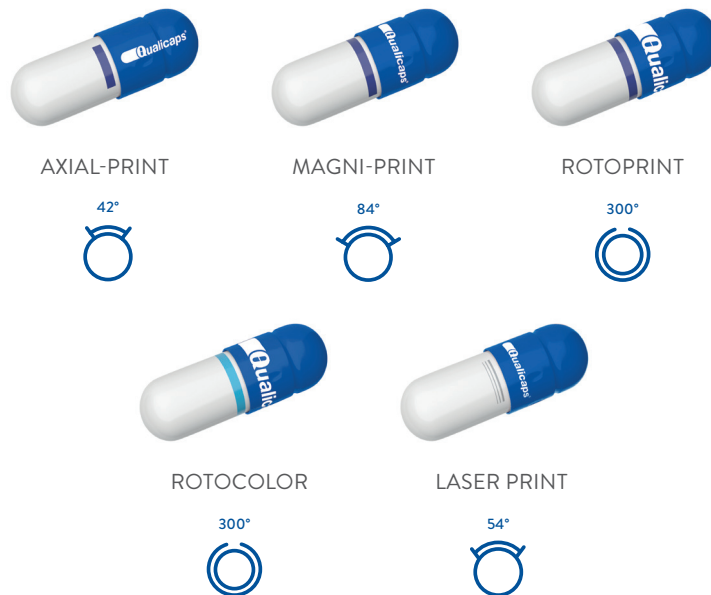
Nutra'V Slow, incorporating inherent delayed-release functionality into a capsule

Capsule Colors

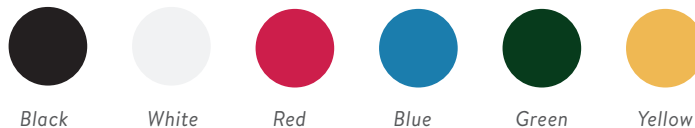
Nutra'V Slow capsules are available in a wide range of colors.



Capsule Printing



Capsule imprinting with color promotes product identity distinction and increases brand recognition, while also aiding in anti-counterfeiting measures. Qualicaps® uses only edible printing inks available in the following colors:



Note: Residual solvents in the ink applied to a capsule comply with limits in the ICH Q3C Guideline for Residual Solvents.



Certifications:

- Kosher and Halal certifications available.
- EXCiPACT certificate.
- Vegan certification available.

Packaging:

- Nutra'V Slow capsules are packaged and supplied in sturdy cardboard cartons, within heat-sealed, moisture-proof aluminium liners.

Storage conditions:

- To prevent any change in shell moisture content, capsules should always be stored within the recommended temperature range of 15°C to 30°C (59°F to 86°F).
- The containers should be kept away from exposure to direct heat, sunlight and moisture.
- Maintaining the capsules within the liner bag (without perforations) safeguards them from both light degradation and loss of moisture, regardless of ambient humidity.
- Properly stored and sealed containers will provide optimum capsule performance in filling.

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