

# **Nutra'G** *Liquid*



Hard two-piece gelatin capsules  
for liquid consumer healthcare  
applications

Providing  
effective protection  
of lower viscosity  
and aqueous fills

 **Qualicaps**



Nutra'G Liquid capsules are the perfect complement to ingredients in liquid form for a rapid release of contents, and a quicker onset of their intended therapeutic effect.

**The specific design of the Nutra'G Liquid capsules guarantees a minimal deformation effect on the capsule after filling operations**



*Tamper Evident*  
**PATENTED BAND SEALING  
TECHNOLOGY**



*Preservative Free*  
**QUALICAPS® INNOVATION**



*Easy to Swallow*

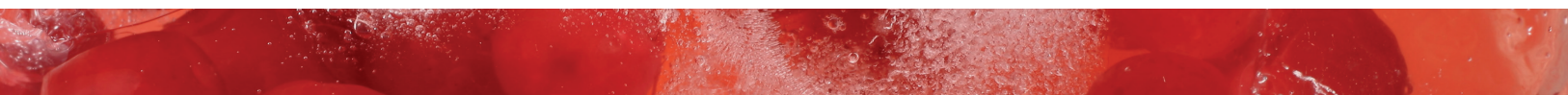


*Masks Taste and Odor*



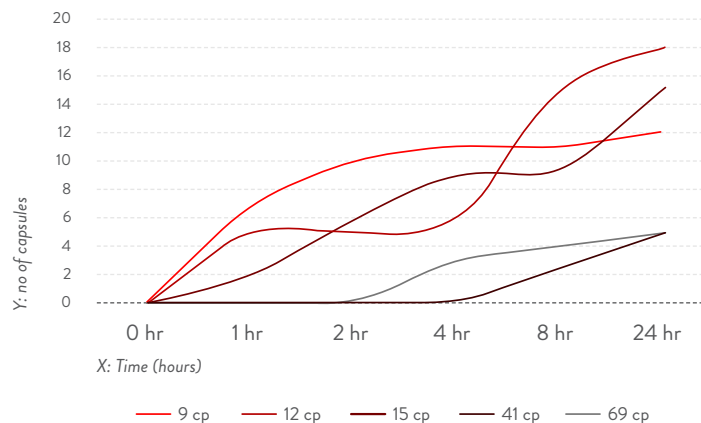
*Manufactured in a cGMP  
Compliant Facility*

Early trials performed with the lowest viscous (9cp) products used in nutraceutical and nutritional applications have proven the counteraction of leaks, and at the same time, the holding time of the liquid can be prolonged prior to banding operation can be carried out.



- Rapid dissolving, with constant solubility
- Made from 100% bovine bone gelatin, are acceptable for consumption within certain religious and dietary constraints
- Nutra'G Liquid capsules are available in different sizes depending on properties of the liquid ingredient:
  - › for high and medium viscosity: available in all sizes
  - › for low and very low viscosity: available in size 0
  - › for semi-solid ingredients (semi-solid matrix): available in all sizes
- Excellent performance on high-speed (in-line filling and band-sealing machines recommended for the best guarantee against leakage)
- Maximum fill capacity and optimum banding time if both operations are not in line, depends on properties of the liquid ingredient
- Wide range of color and imprint options for custom capsule applications to enhance distinctive brand images and product differentiation.
- 5-year shelf life
- Qualicaps® also offers TiO<sub>2</sub>-free Nutra'G Liquid capsules upon request

## EVOLUTION OF LEAKAGE COUNTERACTION PERFORMANCE



### Notes:

Five different viscosity oils ranging from 9 to 69 cp have been tested.  
Sample size: 1,000 capsules filled at 60% of body volume. Tested performed before banding operations.

**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.

# Nutra'G Liquid the definitive liquid encapsulation solution for nutraceutical and nutritional applications

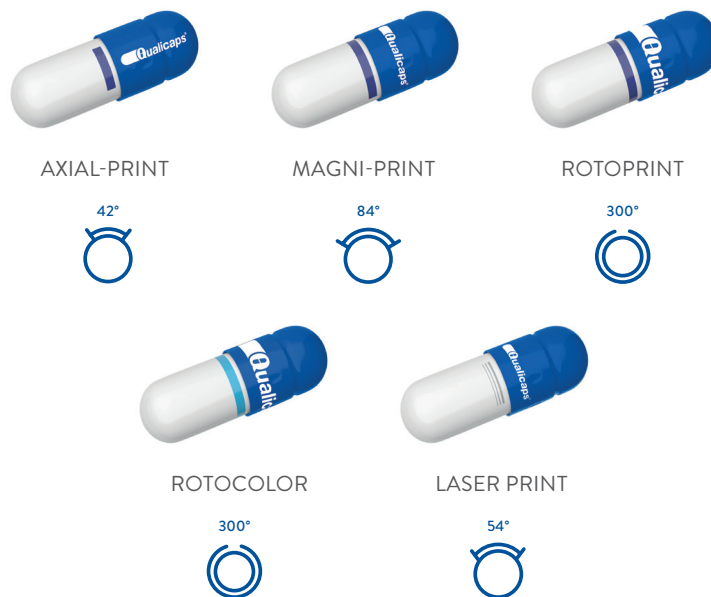
---

## Capsule Colors

Nutra'G Liquid capsules are available in a wide range of colors.

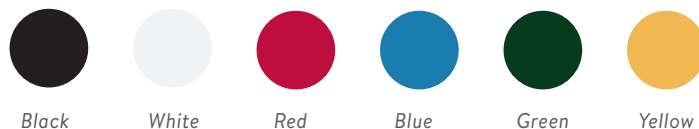


## Capsule Printing



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.

### **Packaging:**

- Nutra'G Liquid 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.

While Qualicaps® has made every reasonable effort to ensure the accuracy of the information in this brochure, Qualicaps® does not guarantee that it is error-free, nor does Qualicaps® make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. Qualicaps® reserves the right to make any adjustments to the information contained herein at any time without notice. Qualicaps® expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult Qualicaps® for the latest dimensions and design specifications.

## **QUALICAPS EUROPE, S.A.U.**

### **QUALICAPS SPAIN**

Avenida Monte Valdelatas, 4  
28108 Alcobendas, Spain  
Tel: +34 91 663 08 00  
Fax: +34 91 663 08 30

### **QUALICAPS ROMANIA**

SOS. Chitilei Nr. 423M – Sector 1  
012391 Bucharest, Romania  
Tel: +40 372 193 200  
Fax: +40 372 710 290

[www.qualicaps.com](http://www.qualicaps.com)

**KAITEKI** Value for Tomorrow  
Mitsubishi Chemical Holdings Group