

Quali-G™

HARD TWO-PIECE
GELATIN CAPSULES
FOR PHARMACEUTICAL
APPLICATIONS



Qualicaps Engineered to perform



QUALICAPS®

HISTORY

Over one hundred years of experience in the manufacturing and filling of hard two-piece capsules

Qualicaps® originated within Eli Lilly & Co., as a capsule manufacturing plant in Indianapolis opened in 1897. This **century-long heritage** dictates a profound understanding of the needs of our pharmaceutical customers, for whom we have focused on delivering at **high-quality standards** since the very beginning.

Along with our innate **customer-centric perspective** that accompanies a lifetime of dedicated service to our customers, Qualicaps® also has a **proven record of innovation**. We were the first to develop a preservative-free gelatin capsule, the first to produce a pharmaceutical-grade capsule of vegetal origin with a dissolution profile similar to that of gelatin, and the first to design and offer a capsule for use in inhalation.

And beyond the capsules themselves, the Qualicaps® group offers a wide range of equipment to support the needs of solid oral dosage production, including capsule filling and sealing, visual and weight inspection, imprinting, and softgel manufacturing.

PARTNERSHIP

More than just a supplier, Qualicaps® is an implicated partner to our stakeholders

Qualicaps® is a **long-term capsule partner** for most of the leading global pharmaceutical companies, as well as for many relevant local and regional ones. We know that these customers value us in terms of quality, anticipation of market requirements, and flexibility to fulfill special customer needs.

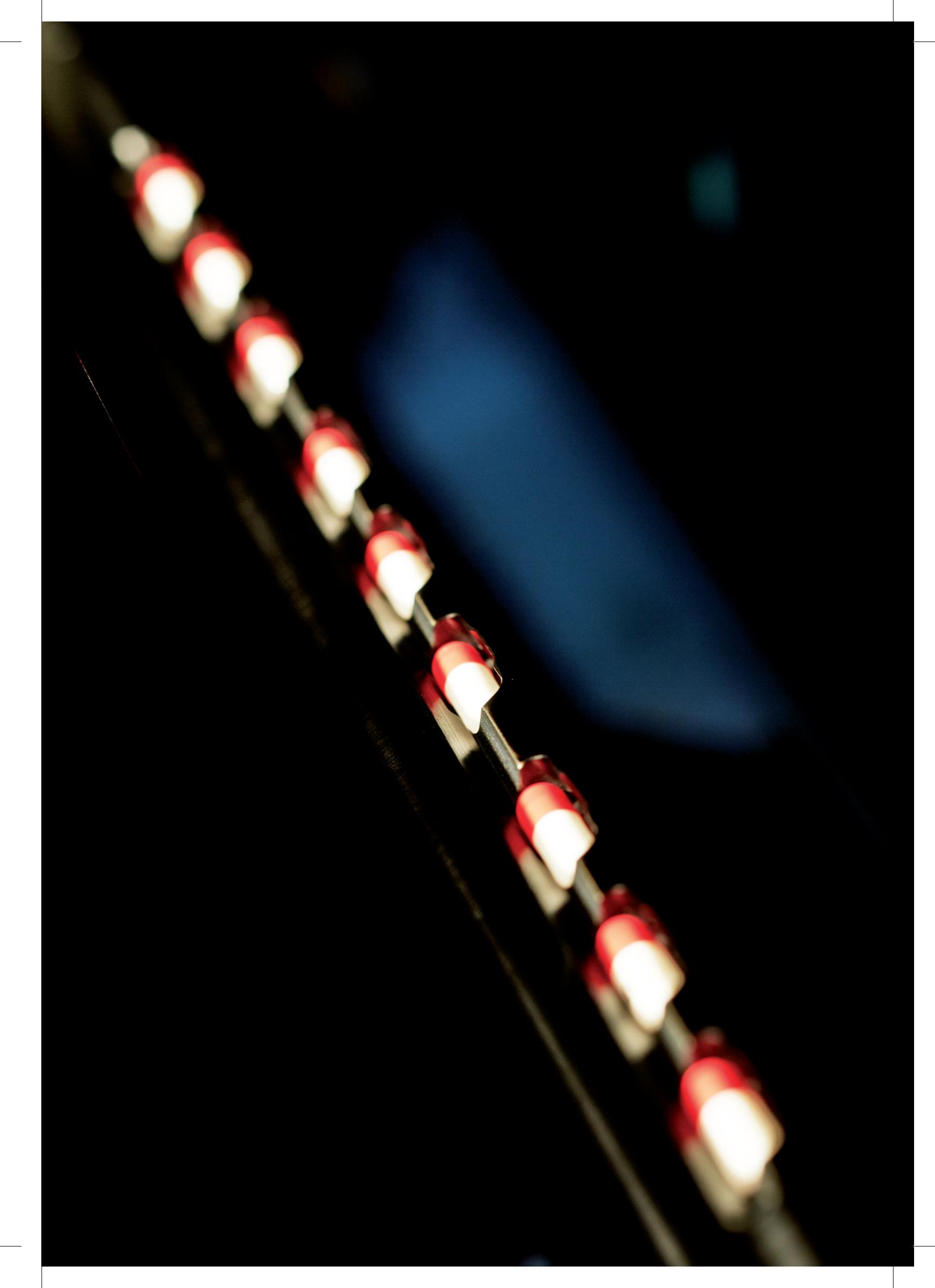
Our **global presence** in all major pharmaceutical markets and the stability and solidity we offer as part of **Mitsubishi Chemical Holdings Corporation** (MCHC) guarantee the assurance of supply necessary for successful product launches and ongoing market requirements.

The Qualicaps® team is comprised of not only expert commercial representatives, but also **highly knowledgeable and experienced personnel** that collaborate with both R&D and academia in more scientific endeavors, as well as technical engineers that support our customers' production centers in runnability and yields.

ENGINEERED TO PERFORM

**QUALICAPS® CAPSULES ARE
DESIGNED AND MANUFACTURED
WITH FUNCTIONALITY AND
PRECISION IN MIND AND DEED**

- We take pride in engineering and producing each individual capsule with the objective of delivering superior performance
- We analyze performance from many perspectives: pharmaceutical-grade quality, productivity in filling machines, stability through shelf life, protection of the active ingredient contained within, and patient adherence and ease-of-use
- We not only offer high standards of performance from our capsules, but also from our team, made up of subject matter experts who collaborate with our customers on meeting their business goals





THE KAITEKI COMPANY

QUALICAPS® INTEGRATES THE “KAITEKI” PHILOSOPHY INTO THE BUSINESS

- Commitment to sustainable development for the benefit of individuals, society, and the Earth
- Value philosophy based on the management of three strategic pillars within the company: economy, technology, sustainability
- Contribution to the resolution of social and environmental issues through our products and services, and as a driver of innovation
- Collective consciousness and joint efforts among the 55,000+ employees of the Mitsubishi Chemical Holdings Corporation (MCHC) Group, of which Qualicaps® is a wholly-owned subsidiary

QUALI-G™ HARD GELATIN CAPSULES



QUALI-G™ CAPSULES ARE DESIGNED TO MEET THE DEMANDING REQUIREMENTS OF THE PHARMACEUTICAL INDUSTRY



Pharmaceutical Grade



Preservative Free
QUALICAPS® INNOVATION



100% bovine bone
PREMIUM

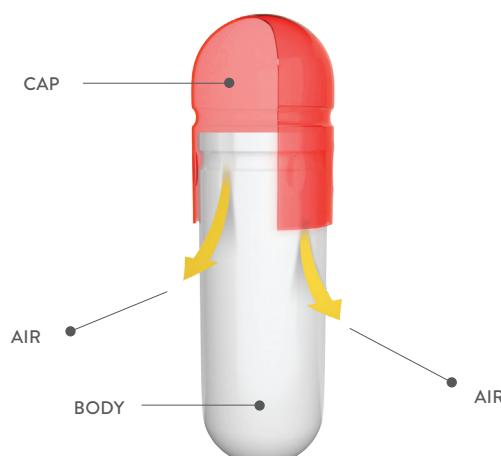


Inhalation grade
QUALICAPS® INNOVATION



100% automatic camera inspection
QUALICAPS® INNOVATION

- **Pharmaceutical-grade quality.** The manufacturing process is carried out following strict pharmaceutical criteria and certified according to ISO 9001 and ISO 14001. Drug Master Files for the US and Canada have been registered.
- Quali-G™ capsules are **continuously monitored by Quality Control experts** in the production process to ensure compliance with the most demanding of pharmaceutical requirements.
- Quali-G™ capsules are made from **100% bovine bone** gelatin in Europe, ensuring superior mechanical properties and assuring compatibility with regard to certain dietary and religious restrictions on other animal sources.
- High quality production standards allow for the manufacture of Quali-G™ capsules **without the use of preservatives**.
- All Quali-G™ capsules are **inspected using an automatic camera system** to detect and remove defective units.
- The **unique POSILOK® design** of Quali-G™ capsules prevents separation when empty or filled on high-speed filling and packaging machines.
- Quali-G™ is the perfect capsule for **liquid fills** when band-sealed with Qualicaps® “Quali-Seal Kits”.
- An **inhalation-grade option** is available with improved microbial and weight specifications.
- Qualicaps® manufactures axial, radial and laser printing machines that provide a **superior print quality**. Laser technology is effective as an anti-counterfeit measure, as very fine details of logos are visually ascertained.
- Quali-G™ capsules are **available in a wide range of colors**, developed in-house and made using market-accepted colorants.
- Quali-G™ capsules are **available in all pharmaceutical sizes**, ranging from 5 up to 00, the largest size used in human medicine.
- Our scientists and subject matter experts can provide **R&D support** in capsule-form dosage delivery. Qualicaps® also has the luxury of tapping into resources available in the Mitsubishi Chemical Holding Corporation (MCHC) research laboratories.
- Our technical service engineers can **assist in achieving productivity yields in capsule filling**, applying their vast knowledge and experience with leading equipment suppliers.



HARD TWO-PIECE CAPSULES, A SOLID ORAL DOSAGE FORM WITH ADVANTAGES

Solid oral dosage forms (tablets and capsules, both hard and soft) are the most popular delivery option among patients, doctors, and pharmaceutical companies.

They are “patient-friendly”: readily portable, convenient to auto-administer, easy to swallow, stable and precise in delivering the active ingredient.

HARD TWO-PIECE CAPSULES ALSO OFFER ADDITIONAL ADVANTAGES OVER TABLETS, MAINLY:

- Less complex formulations, using less excipients.
- Possibility of combining drug products.
- Possibility of using two colors (cap and body).
- More efficient product manufacturing process (reduced amount of steps), reducing validation and analytical costs.
- Absence of compression forces in product manufacturing.

QUALI-G™ GELATIN CAPSULES, THE MARKET STANDARD

Quali-G™ capsules can be used at all stages in the development process, from pre-clinical toxicological testing through all phases of clinical trials, and finally to product launch.

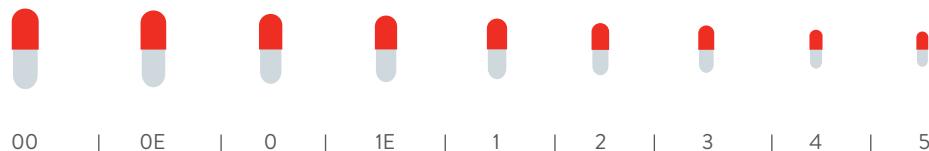
CAPSULE COLORS

Quali-G™ gelatin capsules are available in a wide range of colors.



CAPSULE SIZES

Quali-G™ is available in all sizes used by pharmaceutical companies, from size 5 up to size 00, the largest used in human medicine.



CAPSULE PRINTING



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