

RELIABILITY

OF HOMEOPATHIC MEDICINE

AN ESSENTIAL REQUIREMENT





*Behind every Boiron medicine,
there is a patient who trusts us.
Every Boiron partner
is guided by this statement.
It's what we pride ourselves on.*



We know your requirements.

We share them.

Doctors, pharmacists, laboratories: each in our own way, we contribute to the health of patients.

As a laboratory, our commitment, first and foremost, is to guarantee that our homeopathic medicines are reliable and of high-quality.

From this perspective, having our own equipment to produce all of our medicines ourselves demonstrates our willingness to master the manufacturing process in its entirety.

Constantly striving to do better, the 141 Boiron pharmacists and the entire production team monitor the quality of our medicines on a daily basis.

With rigour and professionalism, they focus on promoting excellence by routinely combining tradition and innovation.

Our commitment: to allow you to rest assured that Boiron homeopathic medicines are reliable as well as beneficial to your practice and to the health of your patients.

Jean-Christophe Bayssat,
Deputy General Manager,
Responsible Pharmacist





GUARANTEEING THE QUALITY OF THE RAW MATERIALS

→ Ensuring consistent quality of the substances used

Our homeopathic medicines are produced from substances of varying origin using a dynamic dilution process.

To identify and collect these raw materials, **Boiron surrounds itself with qualified professionals** with preference given to regional partnerships to promote proximity. Such is the case with certain venoms collected manually by the world leading expert (in la Drôme, France), who breeds snakes for therapeutic or research purposes.

In regards to the harvesting of plants, our partners are regularly audited in terms of the harvesting location and compliance with Boiron specifications. Upon arrival at the laboratory, **our raw materials are subjected to strict quality controls.**

For instance, our plants undergo a **triple control screening.**

- **Organoleptic:** to ensure that the batch received is healthy (no disease or aphids) and clean (free from foreign matter).
- **Botanical:** to confirm the identification of the species.
- **Physico-chemical:** to detect the presence of components required by the Pharmacopoeia and to measure its key components.

For the control of certain other raw materials, we work closely with experts specialising in their field: analysis of the sea water used in oyster farming for harvesting of calcium carbonate, X-ray diffraction for certain minerals (e.g.: *Palladium metallicum*).



Strains of varied origin

53%
of plant origin

33%
of mineral and chemical origin

14%
of animal origin

→ 100% "made in Boiron" granules and globules



16 days to produce a Boiron granule

To master the entire manufacturing process, **Boiron decided to carry out the production of granules and globules - specific to homeopathic medicines.**

We have used a patented process for this purpose since 1972. Boiron's granules and globules contain 85% sucrose and 15% lactose. The presence of lactose boosts the quality of our medicines since it enables:

- **an increased porosity of the granules and globules,**
- **an improved distribution and retention of the homeopathic dilution.**

The same expertise is applied to other medicine formats which we produce such as ointments, tablets, eye drops etc.

Thanks to the pellet dispenser, the Boiron tubes, designed specifically for our medicines, provide patients with easy-of-use, guaranteed delivery of the right dose.



MASTERING THE SPECIFIC FEATURES OF A UNIQUE MEDICINE

With a rigorous scientific approach, Samuel Hahnemann – the doctor behind the advent of homeopathy - precisely defined the various phases in the manufacturing process. **Today, the quality of homeopathic medicines still depends on compliance with this unique process, which we master every step of the way.**

→ *Traditional homeopathic dilution with the help of high-technology*

- **Each dilution is prepared according to traditional methods**, listed in the French Pharmacopoeia since 1965 and still in use today.
- Homeopathic dilution is carried out in our laboratories in a laminar flow clean air enclosure, which filters ambient air.
- A central air system controls pressure, temperature and hygrometry.

→ *Automated succussion to guarantee reproducibility*

- **Succussion, a vital step in the preparation of homeopathic dilutions**, is carried out mechanically, using a specialised machine called a “succussor.”
- This process guarantees reproducibility in terms of frequency, duration and amplitude of the succussing: succussed 150 times over 7 seconds.
- **This ensures that the succussion is perfectly identical from one dilution to the next.**

Providing reliable homeopathic medicines to healthcare professionals around the world: that's our craft.

→ *Triple medication: a Boiron innovation that became a standard procedure*

- In 1961, Jean Boiron developed and patented **a triple medication process guaranteeing homogeneous medication of the active ingredient down to the core of the granule.**
- Originally carried out by hand, triple medication has now become standardised to guarantee the quality of the various stages:
 - **micro-spraying** using glass nozzles calibrated to the nearest micron,
 - **homogenisation** optimised by controlling the angle of inclination and rotation speed of the turbines,
 - **Filtered Air drying.**



INNOVATION SERVING TRADITION

→ *A modern-day medicine faithful to traditional processes*

Ever since our inception, our mission has been to improve technical manufacturing conditions to ensure the large-scale production of a reproducible and reliable homeopathic medicine.

Our teams work on a daily basis to **strike a balance between respect for traditional procedures and constant technological innovation.**

To achieve this, **we have developed our own industrial tool, designed specifically to respond to the unique manufacturing process adopted for homeopathic medicines:** e.g. succussion, triple medication, granules and globules manufactured onsite.

This industrial process ensures that our medicines are perfectly reproducible with the same quality of product available across the world.

↓
460

A strong workforce involved in producing our medicines

→ *Quality control: a constant requirement*

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Approximately
30,000
control procedures are carried out each year by our teams throughout the manufacturing process

Within our teams, **60 staff members focus on quality control** across the manufacturing process. We have our own specialised laboratories.

- **Chemistry laboratory**
Approximately 4,000 analyses each year: liquid chromatography, gas chromatography, (UV and IR) spectrophotometry, atomic absorption spectrometry, etc.
- **Bacteriology laboratory**
Around 23,000 control procedures are performed each year on raw materials.
- **Botanical laboratory**
Over 3,000 controls are carried out every year, from receipt onwards, by a team of pharmacists, chemists and botanists.

The Boiron production sites are regularly inspected by the French National Agency for Medicines and Health Products Safety (ANSM). We are also audited by the authorities in countries where our medicines are available: recently Brazil (ANVISA, Agência Nacional de Vigilância Sanitária, in 2011), the United States (FDA, Food and Drug Administration, in 2015), Kazakhstan (National Centre for Drug Expertise, in 2014).



MAKING WAY FOR HOMEOPATHIC MEDICINE IN THE FUTURE

→ *We are dedicated to recognising the merits of homeopathy and safeguarding its future*

In 1897, the Homeopathic Pharmacopoeia was published for the first time in the United States. It was recognised by the American Health Authorities in 1938.

In France, **thanks to the work of Jean Boiron, homeopathy was included in the French Pharmacopoeia in 1965**, before being officially recognised by the European Pharmacopoeia in 1995.

Ever since our inception, our mission has been to ensure that our medicines are registered and recognised in many countries, giving healthcare professionals the **widest possible choice of medicines**.

This development has been achieved in accordance with:

- pharmaceutical regulations,
- requirements in terms of the quality and reproducibility of the manufacturing process.

→ *Preserving the environment and safeguarding the future of species*

Respect for local ecosystems and natural resources is at the heart of our procurement practices.

For plant species, we get our supplies from roughly thirty botanical experts who share the same objectives:

- to perpetuate plant resources,
- to optimise the traceability of plant substances,
- to preserve the environment and biotopes.

Boiron complies with the good practices of plant harvesting recommended by the World Health Organisation (WHO) and has its own harvesting specification. This specification also applies to the cultivation of species that do not grow in the wild (*Calendula officinalis*) or species threatened by harvesting due to the quantities used (*Valeriana officinalis*).

Recognition of homeopathic medicine created by Jean and Henri Boiron: this is our heritage. To continue this work, that's our ambition.



● Head office
 ■ Subsidiaries
 ■ Available Boiron's medicines

BOIRON ACROSS THE WORLD

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Boiron is a family-owned and independent pharmaceutical laboratory, funded in 1932 by two pharmacists, Jean and Henri Boiron.

Specialized in the manufacturing of high-quality homeopathic medicines, Boiron is the worldwide leader in its field. The manufacturing of our products in France is associated with a presence in more than 50 countries, thanks to our 20 subsidiaries and our distributors.

Since the opening of our 1st subsidiary, our primary development objective has been to ensure that our medicines are integrated within an appropriate regulatory framework.

Regardless of the country, our medicines are officially recognised by the local Health Authorities. Thus, we ensure the sustainability of our medicines and the homeopathic practice in general.

Our mission: to contribute worldwide to the healthcare of patients thanks to the specificity and efficacy of homeopathic medicines.

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Boiron across the world



¹ Canadian consumers centre for homeopathy 2013 ² Livre blanc Espagne 2013 and Canadian Consumers' Centre for Homeopathy