

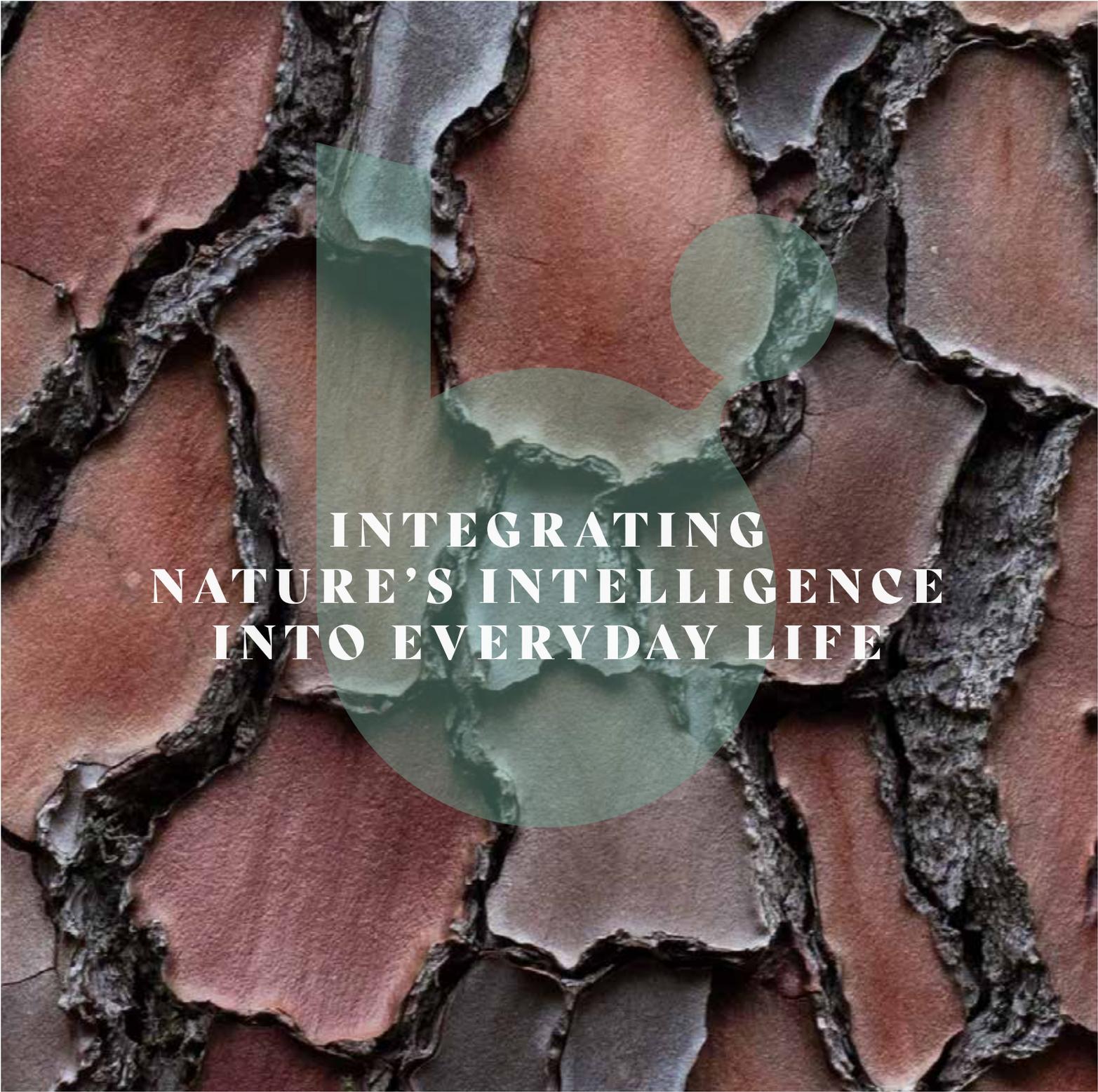


**TAILOR-MADE
INGREDIENT
DEVELOPMENT**

FULL SERVICE &
PRIVATE LABEL

WE MANUFACTURE ACTIVE INGREDIENTS
AND PROVIDE PERSONALIZED SOLUTIONS

b groupe
berkem



INTEGRATING
NATURE'S INTELLIGENCE
INTO EVERYDAY LIFE

Groupe Berkem

OVER

60

YEARS OF

EXPERTISE

GROUPE BERKEM, CREATED IN 1964, HAS BEEN A LEADING EXPERT IN THE EXTRACTION OF PLANT-BASED MATERIALS SINCE THE 1970S.



In addition to our historical plant extraction activity, we have been specialized in drying techniques for 30 years.

Constant investment has been made in the development of industrial processes with the aim of refining our techniques. We are committed to ongoing innovation in order to maintain our position at the cutting edge of the industry.

We offer our rich manufacturing expertise to support all your projects.



**YEARLY
PROCESSING
CAPACITY**

- > 4,200 tonnes of plants
- > 2,000 tonnes of marine extracts

**YEARLY
PRODUCTION
CAPACITY**

- > Over 400 tonnes of floral waters and over 30 tonnes of dry extracts for the cosmetic market
- > Over 100 tonnes of plant and marine extracts for the nutraceutical market

You can rely on us to provide unparalleled **advice and support**, built on **experience** and **unwavering passion**.



Your project is unique. So is our scope of services.

Our flexible, reactive & efficient teams are dedicated to assisting you in developing your project.

- > A dedicated multidisciplinary team: Project Manager, Sourcing Manager, Marketing Manager, Regulatory Expert, technicians and doctors.
- > A Quality System to validate reliability, safety and compliance in the market.
- > A regulatory department to ensure compliance with the various regulations.
- > Upon request: several certifications, commitments and labels (COSMOS standard, ECOCERT standard, Kosher, Halal, etc.).

Developing customized innovative extracts that fully meet your specific needs.

We support you during each step of your product development.

From full service to private label, the best possible assistance with your success in mind.



A unique, exclusive, innovative and specifically tailored product in the form and shape you need.



Tell us about your project and we'll craft **the right product to meet your needs and target markets.**

Markets & applications

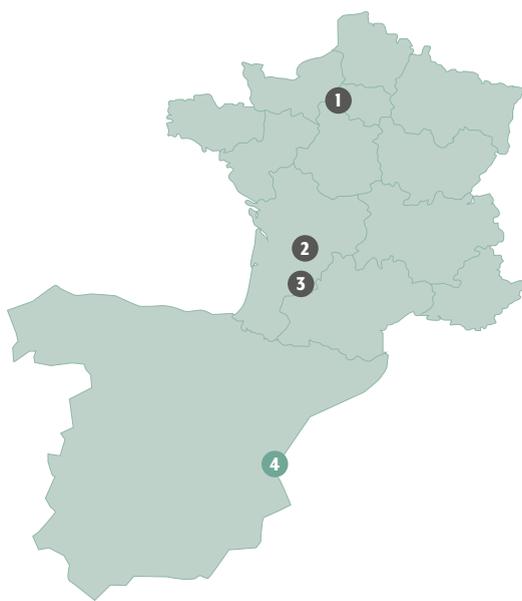
COSMETICS

FOOD

NUTRACEUTICALS

LIFE SCIENCES

Industrial Sites at Your Disposal



- 1 Chartres: *Freeze-drying***
 - > 1,700 m² and 130 m² for processing
 - > ISO 9001 / ISO 22000
- 2 Gardonne: *Plant Extraction & Spray-drying***
 - > 5 ha
 - > ISO 9001 / ISO 22000
- 3 Tonneins: *Vegetable Oils & Proteins - Oil bottling***
 - > 12,800 m² covered area
 - > 1,500 m² for pressing
 - > 10,000 m² for packaging & storage
- 4 Valencia: *Plant & Marine Products Extraction***
 - > 11 ha
 - > 8 containers for chilled and frozen storage
 - > FSSC 22000/MSC (Marine Stewardship Council)



GARDONNE - FRANCE



VALENCIA - SPAIN





Ethical & Premium Sourcing

Particular attention is paid to plant sourcing, with a view to guaranteeing the traceability and excellent quality of raw materials.

At Groupe Berkem, we believe that independence is key. We source our plants directly from growers and define with them sustainable production volumes.

We promote local sourcing and short supply chains, we foster long-term partnerships with producers, and we value upcycling.

Our dedicated botanical sourcing team works tirelessly to find the best plants for their valuable benefits, under the best development conditions.





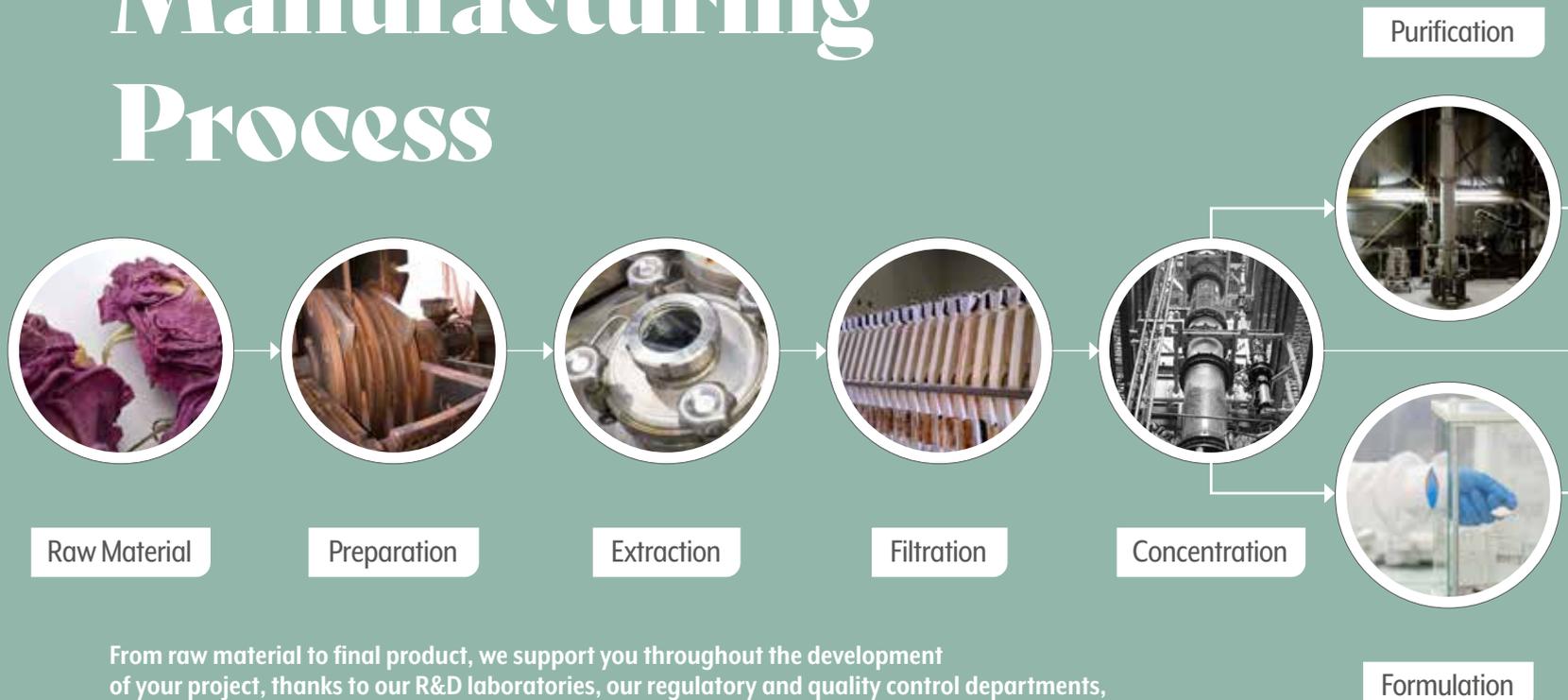
MOROCCAN DAMASK ROSE FIELDS BEFORE THE HARVEST

Our experts will handle your raw material search and provide top-of-the-line sourcing options.

Trust us for **the best possible assistance** from **field to finish.**

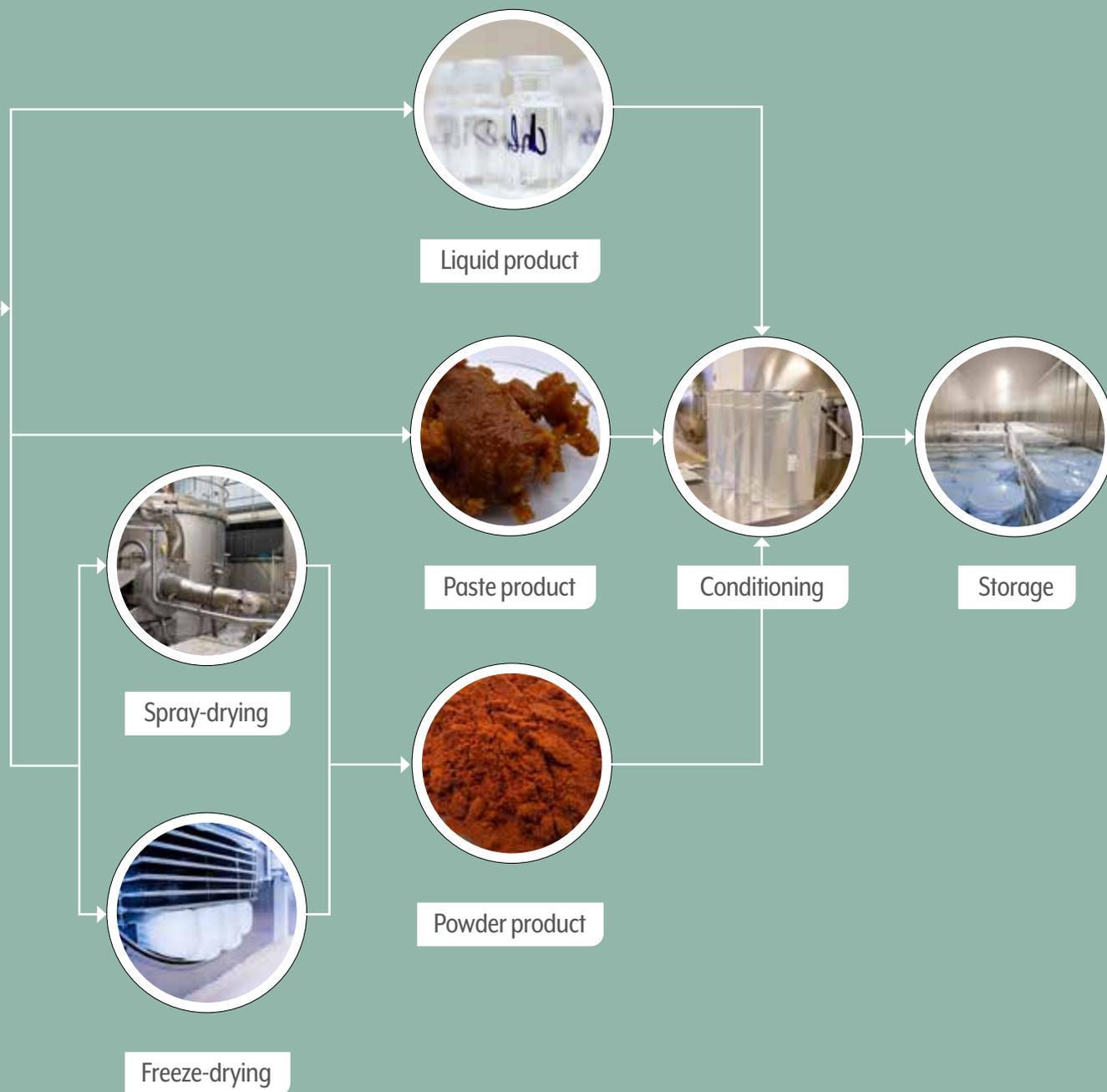


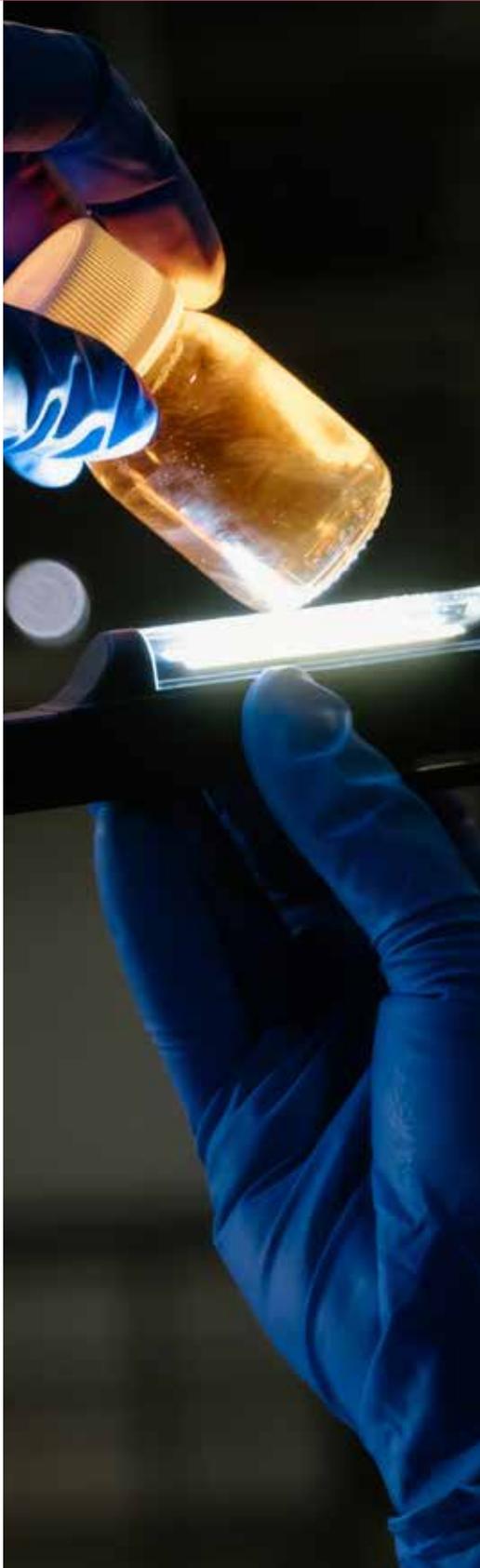
Manufacturing Process



From raw material to final product, we support you throughout the development of your project, thanks to our R&D laboratories, our regulatory and quality control departments, as well as our full-scope, high-performance in-house production facilities.







Bring Agility to Your Project

Our pilot unit is a crucial step in your industrialization process.

Process validation

Small-scale tests are conducted before mass production.

Parameter optimization

We fine-tune production conditions before further implementation.

Validation of R&D lab stage

Laboratory results are confirmed in a production context to reproduce laboratory tests on a larger scale but below industrial volume.

Cost evaluation

We strive to estimate and reduce production expenses.

Staff training

We value continuous improvement to keep our employees up-to-date with new equipment.

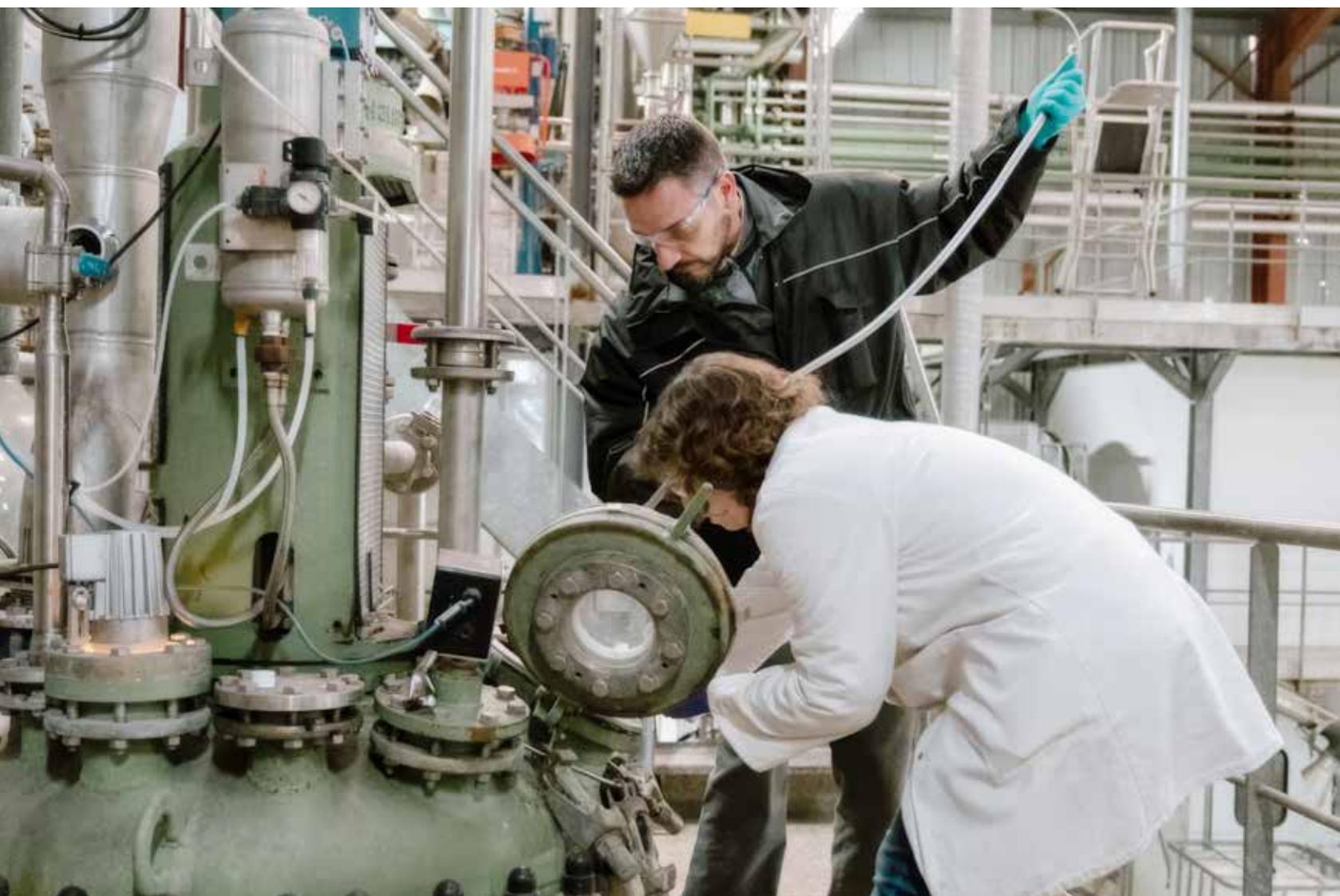
Regulatory compliance

Securing necessary approvals is key to meeting international requirements.

Safety and sustainability

Identifying and mitigating risks helps us protect health and the environment.

A pilot unit helps minimize risks, optimize production, and provide flexibility before scaling up.



"It's a real privilege to collaborate with **passionate and dedicated** team members! **Our customers always value this commitment.**"

Laurent CUBIZOLLES Director of R&D and Regulatory Affairs for Finished Products



Extraction Tools

Reception – Preparation:

Dry raw material

- > 1 knife grinder
- > 1 hammer mill / spindle mill

Marine or wet raw material

- > 2 shredders dedicated to crustaceans and fish carcasses
- > 1 rotary sieve for carcasses

Extraction – Separation –

Concentration: →

- > 19 distillation concentrator reactors
- > 10 evaporators (falling stream, filter bottom, falling film, vacuum)
- > 7 reactors
- > 4 percolators
- > 2 centrifugal decanters
- > 2 stirred tanks
- > 3 bottom-filtering extractors
- > 1 ATEX Flottweg centrifugal tricanter

KNOW HOW

- Extraction of all solvents (water, ethanol, methanol, ethyl acetate, iso-hexane, acetone, heptane, etc.)
- Fine chemistry, esterification, etherification, hemisynthesis
- Acid and enzymatic hydrolysis, micro and nanoemulsions

Our extraction capacity per project ranges from 20 kg to several hundred tonnes, tailored to fit your specific needs and raw material factors.

Purification –

Filtration:

- > 4 fading columns
- > 2 columns of ion exchange resins
- > 2 ethanol rectification columns
- > 1 pulsed column
- > Multiple moving filters

TYPE OF FILTRATION

- Ultrafiltration
- Nanofiltration
- Reverse osmosis

AVAILABLE METHODS

- Filtration on membranes: cloths, bags, plates, presses
- Sterilizing filtration

Blending – Drying:

- > 2 ventilated ovens
- > 1 continuous vacuum dryer
- > 1 continuous liquid cooling line before packaging
- > 1 ploughshare vacuum dryer mixer
- > 1 vacuum oven
- > 1 horizontal coulter vacuum dryer
- > 1 coulter mixer
- > 1 cryogenic grinder
- > 1 grinder
- > 1 sieve





Drying Tools

We offer a wide range of drying technologies to meet the unique needs of preserving and protecting your sensitive raw materials.



RESOLVED STORAGE
AND TRANSPORT ISSUES



IMPROVED
AND LONGER SHELF LIFE

Freeze-drying:

Cold drying technique by sublimation that extracts the maximum amount of water contained in a product to improve its stability and extend its shelf life.

- > Preservation of the benefits of your products without alteration
- > Improvement of the stability of your active ingredients
- > Maintaining the bio-activity of active ingredients

- > 1 R&D freeze-dryer
1-6 kg input
- > 11 Industrial
freeze-dryers
1-200 kg input

Spray-drying:

Drying and dehydration process where a liquid solution is sprayed into fine droplets within a vertical chamber, interacting with hot air, resulting in a powder enriched with the required molecules.

- > High efficiency, speedy method in a single-step
- > Cost efficiency and procedural simplicity

- > 1 pilot spray-dryer
- > 1 single-acting
turbine production
spray-dryer

Experts in drying all types of materials, including plants, algae, food ingredients, organisms (bacteria, fungi, etc.), probiotics, marine extracts and much more!



THE WORKING ZONE IS ISO 7 RATED, TO GUARANTEE A CONTROLLED ATMOSPHERE.

"Our customers often highlight our professional and caring approach, responsiveness and **the excellent quality of our products**" Sébastien DECOURTYE Site and Production Manager, Chartres

Research & Development Laboratories

Our continuous investment in innovative research and development enables us to consistently improve our techniques, ensuring that you always receive the best support.

Each of our sites has a Research and Development laboratory where we conduct studies before large-scale production.



BIBLIOGRAPHIC
STUDIES



FEASIBILITY
STUDY



OPTIMIZATION
PROCESSES



ACTIVE INGREDIENTS
CHARACTERIZATION

Delivery technologies

Berkemyol®

PROTECTION OF PLANT POLYPHENOLS

- ✓ Better conservation of assets
- ✓ Oil soluble
- ✓ Better biological efficiency over time
- ✓ White powders
- ✓ Easier use of the cosmetic formula

PhytoVec®

ENCAPSULATION REVOLUTION THANK TO CHLOROPHYLL

- Bio-inspired new delivery system
- Based on phytol, the tail of chlorophyll

ALL-IN-ONE SOLUTION FROM LAB CONCEPTION TO SKIN APPLICATION

- ✓ Water dispersible ingredient
- ✓ High concentration of encapsulated active compounds
- ✓ Better protection & stability
- ✓ Maximizes efficacy
- ✓ Formulability & sensory experience

Biology Laboratory

Focused on two core areas of research:

- > *In vitro* tests on different biological models: 3D models (reconstructed tissues), 2D cells (skin cells, intestinal cells).
- > Acellular tests, with a wide array of biochemical and enzymatic assays.



CONDUCT A HIGH-PERFORMING
AND INNOVATIVE EVALUATION
OF THE EFFICACY OF YOUR PRODUCT



UNDERSTAND THE MECHANISM
OF ACTION



ASSESS THE PERFORMANCE
OF YOUR PRODUCT





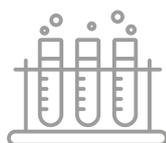
4 Business Areas

b Health, Beauty & Nutrition

b Construction & Materials

b Hygiene & Protection

b Industry



French chemical
manufacturer
since
1964

5 expertise areas, 1 objective



Integrating bio-based chemistry
into conventional chemistry

- Extraction
- Formulation
- Drying (spray-drying
and freeze-drying)
- Resin synthesis
- Production of edible
and technical
vegetable oils, and
manufacture of
vegetable proteins

4 technologies

dedicated to the development
of plant-based solutions



- Synerkem®
- Berkem Biosolutions®
- PhytoVec®
- Berkemyol®

Over

250
employees



European
production
100%



1 head office
Bordeaux area (Gironde)
FRANCE

5 industrial sites

- Chartres (Eure-et-Loir)
- Gardonne (Dordogne)
- La-Teste-de-Buch (Gironde)
- Tonneins (Lot-et-Garonne)
- Valencia (Spain)



10 laboratories

in Blanquefort (Bordeaux) - FRANCE

- 4 extraction laboratories
- 2 biology laboratories
- 1 analytical control laboratory
- 2 formulation laboratories
- 1 synthesis laboratory



1 laboratory

in Gardonne (Dordogne) - FRANCE

Quality control and analysis

1 laboratory

in Valencia - SPAIN

Quality control & analysis



More than

500
product
references





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Let's
innovate
together



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