### TAILOR-MADE INGREDIENT DEVELOPMENT

FULL SERVICE & PRIVATE LABEL



WE MANUFACTURE ACTIVE INGREDIENTS AND PROVIDE PERSONALIZED SOLUTIONS







# INTEGRATING NATURE'S INTELLIGENCE INTO EVERYDAY LIFE

# Groupe Berkem

60 **YEARS OF** EXPERTISE

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

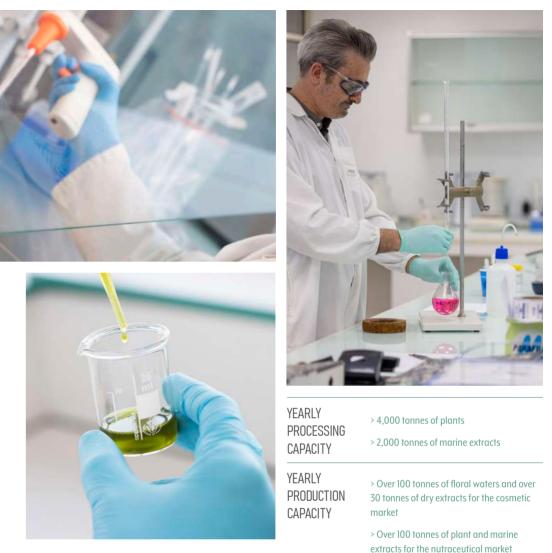


In addition to our historical plant extraction activity, we have been specialized in drying techniques for 30 years.

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.

and unwavering passion.



# You can rely on us to provide unparalleled advice and support, built on experience

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

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

(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.

INDUSTRIAL - SCALE PRODUCTION

ANALYSIS AND QUALITY CONTROL



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

### Markets & applications

COSMETICS

JTRACEUTICALS



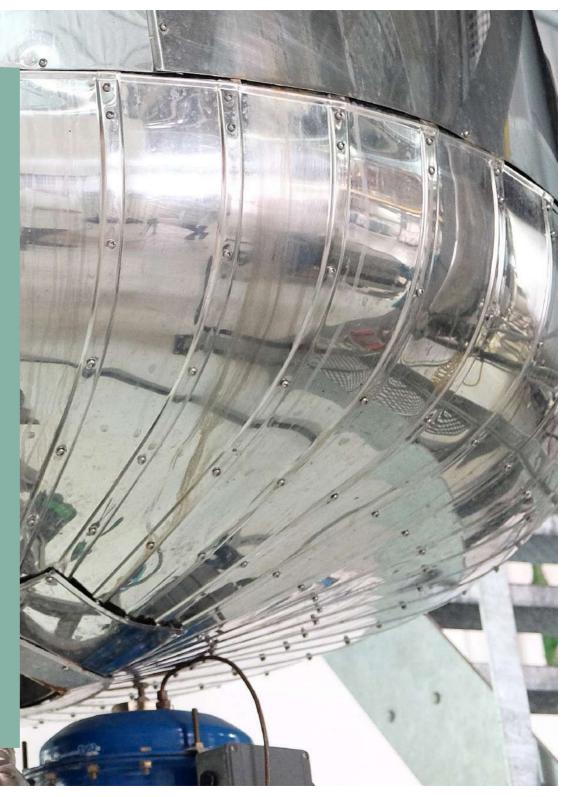


# Chartres: Freeze-drying > 1,700 m<sup>2</sup> and 130 m<sup>2</sup> for processing > ISO 9001 / ISO 22000

- **Gardonne:** Plant Extraction & Spray-drying > 5 ha > ISO 9001 / ISO 22000
- Tonneins: Vegetable Oils & Proteins Oil bottling
  > 12,800 m<sup>2</sup> covered area
  > 1,500 m<sup>2</sup> for pressing
  > 10,000 m<sup>2</sup> for packaging & storage
- Valencia: Plant & Marine Products Extraction
  > 11 ha

> 8 containers for chilled and frozen storage
 > FSSC 22000/MSC (Marine Stewardship Council)







# 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.



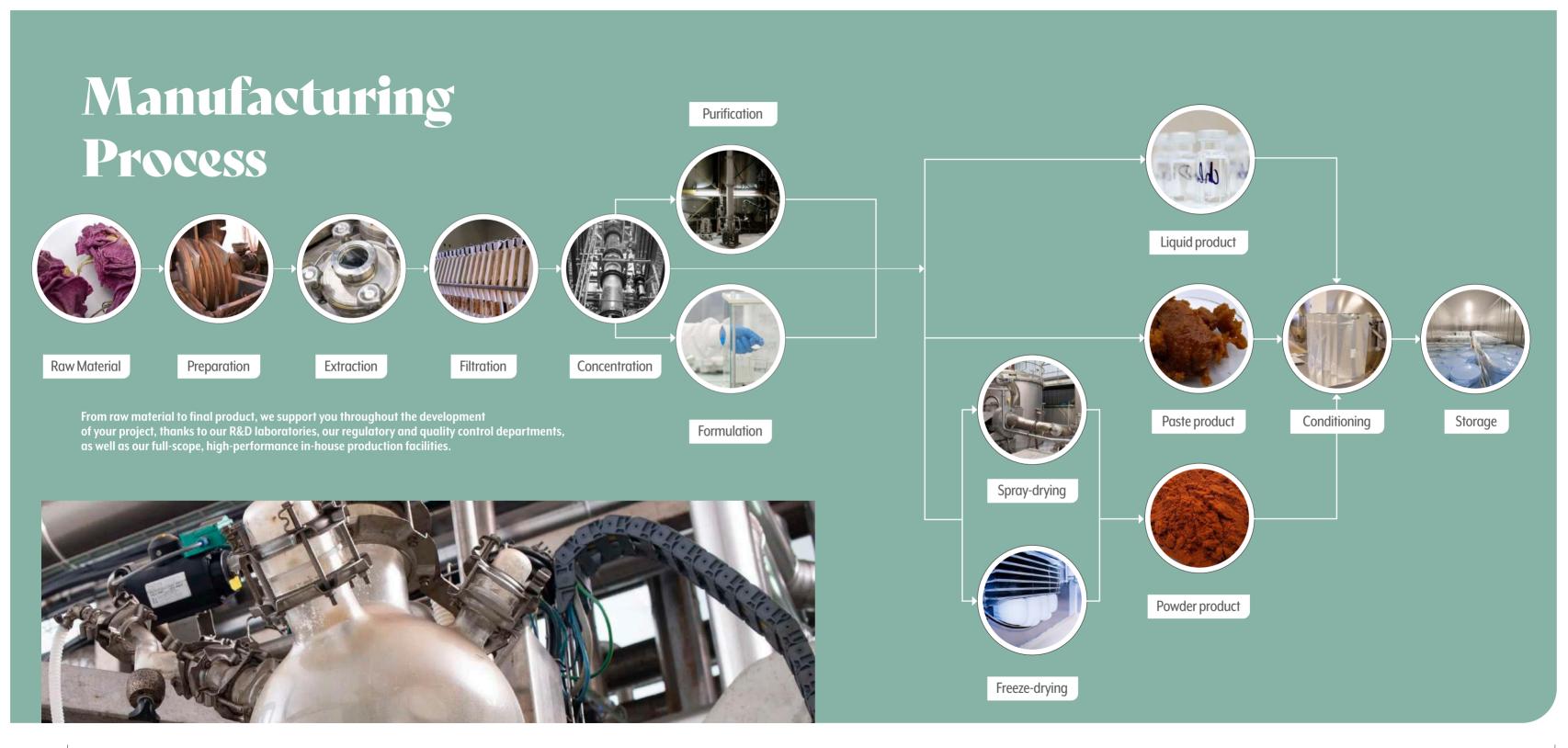




Our experts will handle your raw material search and provide top-of-the-line sourcing options.

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







# Bring Agility to Your Project

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

<u>Process validation</u> Small-scale tests are conducted before mass production.

Parameter optimization We fine-tune production conditions before further implementation.

<u>Validation of R&D lab stage</u> Laboratory results are confirmed in a production context to reproduce laboratory tests on a larger scale but below industrial volume.

<u>Cost evaluation</u> We strive to estimate and reduce production expenses.

<u>Staff training</u> We value continuous improvement to keep our employees up-to-date with new equipment.

<u>Regulatory compliance</u> Securing necessary approvals is key to meeting international requirements.

<u>Safety and sustainability</u> 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.**" Julie CHÉRUBIN Process & Extraction Laboratory Manager



# **Extraction Tools**

#### **Reception – Preparation:**

#### Dry raw material

- > 1 knife grinder

#### Marine or wet raw material

- > 1 rotary sieve for carcasses

#### **Extraction – Separation – Concentration:**

- > 14 distillation concentrator reactors

- > 2 centrifugal decanters

#### 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:



#### TYPE OF FILTRATION

- Ultrafiltration
- Nanofiltration
- Reverse osmosis

#### AVAILABLE METHODS

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

#### **Blending – Drying:**

- > 1 ploughshare vacuum dryer mixer



# Drying Tools

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





ND LONGER SHELF LIFE

>1R&D freeze-dryer

freeze-dryers

#### 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

Spray-drying:

into fine droplets within a vertical chamber, interacting with hot air, resulting in a powder enriched with the required molecules.

> 1 single-acting

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



**OURT PRODUCTS**" Sébastien DECOURTYE Site and Production Manager, Chartres

## "Our customers often highlight our professional and caring approach, responsiveness and the excellent quality of

# **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.



**BIBI IOGRAPHIC** STUDIES



OPTIMI7ATION PROCESSES



ACTIVE INGREDIENTS CHARACTERIZATION

### **Berkemyol**<sup>®</sup>

► CHALLENGES WITH POLYPHENOLS

 Sensitive to environmental factors (air, pH, light...)

 Potential loss of efficacy and compounds' coloration

#### POLYPHENOLS STABILIZATION **TECHNOLOGY**

✓ Better conservation of assets

- ✓ Better biological efficiency over time
- ✓ Easier use of the cosmetic formula



#### Patented technologies

### **PhytoVec**<sup>®</sup>

#### **ENCAPSULATION REVOLUTION** THANKS TO CHLOROPHYLL

- New delivery system
- Based on phytol, the tail of chlorophyll

#### **ALL-IN-ONE SOLUTION**

- ✓ Naturalness
- ✓ Better protection & stability
- ✓ Higher efficacy, safety & skin tolerance
- ✓ 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

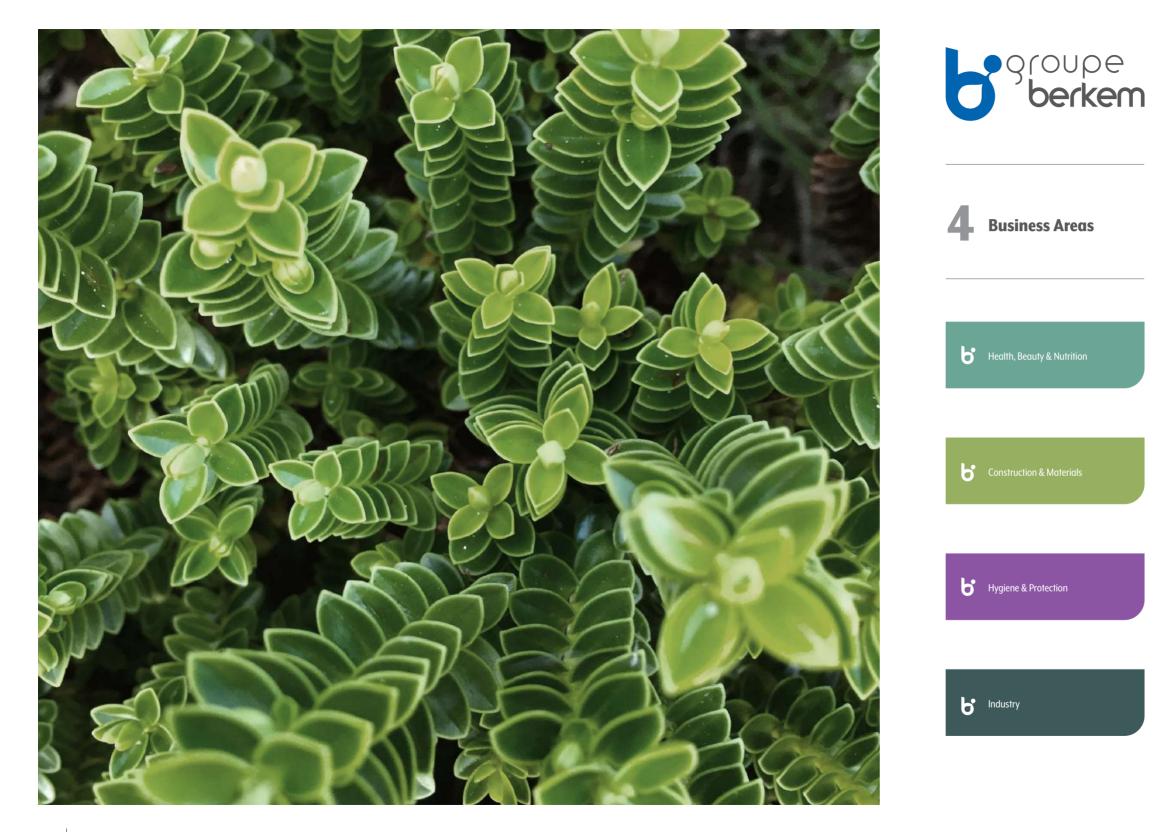


UNDERSTAND THE MECHANISM OF ACTION



ASSESS THE PERFORMANCE OF YOUR PRODUCT







French chemical manufacturer since

1964



head office **Bordeaux area** (Gironde)

#### 5 expertise areas, 1 objective Q



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

#### Synerkem<sup>®</sup> technology

dedicated to the development of plant-based boosters

Over

250 employees





#### **5** industrial sites

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



#### **5** laboratories

near Bergerac

- 2 dedicated to R&D
- 2 for quality control and analysis
- 1 biology laboratory

#### laboratory

Valencia

 1 quality control and analysis laboratory

#### **5** laboratories

- 1 laboratory for formulating materials protection products
- 1 laboratory for synthesizing resins
- 1 laboratory for developing decorative products
- 1 quality control and analysis laboratory
- 1 biology laboratory

More than 500 product

. references





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Health, Beauty & Nutrition