Our Tools

Extractors with filtering bottom
- Pilot Guédu 200 litres, stainless steel
  - Work pressure: Vacuum / Atmospheric pressure.
- Tournaire 300/300 litres, stainless steel
  - Work pressure: Vacuum / Atmospheric pressure.

Extractors
- 3 maceration tanks of 4000 litres (steam heating)
  - Characteristics: Semi-continuous system.
  - Extraction rate for a simple extract: 30 tonnes of plant/week.

Falling film evaporator
- 3000 litres, stainless steel
  - Work pressure: Vacuum / Atmospheric pressure.

Filters
- Ultrafiltration unit, area 9m²
  - Filtration threshold of 20KD, mineral membrane.
- Membrane filter press
  - Work pressure: 15 bars maximum.
- Membrane filters

Reactors
- 200 to 10000 litres
  - 6 enamelled reactors, Pyrex columns and accessories.
  - 10 stainless steel reactors.
  - Work pressure: Vacuum / Atmospheric pressure.

Low-pressure purification columns
- 450 mm and 800 mm
  - Variable bed height.

Ovens / drying
- 1 vacuum oven (100 kilos)
- 1 ventilated oven (300 kilos)
- 1 stirring dryer (50 kilos)

Plough mixer
- Mix of powders
  - Capacity: 1 tonne of powder/batch.
  - Food and pharmaceutical industries.

Atmospheric column
- Atomizer
  - Turbo atomizer
  - 20 litres per second per hour. Minimum batch: 150 litres of solution.
  - Capacity at 2 tonnes of liquid for atomising / 24 hour.

An Ecoresponsible company

Respect of the environment:
- Transparency and sustainable development for future generations.
- The firm supports, within the UIC (Union des Industries Chimiques – Union of Chemical Industries), the “commitment to progress” programme that aims to reduce the release of pollutants into the environment and improve staff safety.

Berkem has obtained certification attesting to its commitment to the respect of organic production methods and several certificates issued by the Ecocert body for the food processing and cosmetic fields.
Our know-how
Unique plant extracts

Tailor-made purified plant extracts and active principles

Produced from various types of plant raw materials: leaves, roots, bark, flowers, seeds, algae, fruits, vegetables, etc., and semi-transformed products (lis, powders).

Industrial solutions adapted to your procedures

- Powder forms: aerial and powder press.
- Liquid extracts: aqueous, alcoholic, hydro-alcoholic and hydro-glycolic solutions.
- Semi-solid forms: soft extracts, concrete.
- Organic certified extracts and according to specifications: Kosher or Halal.

Antioxidant active principles

- Custom fruit and vegetable polyphenols.
- Grape and pine titrated antioxidants: Vitisol® and Pineol®.
- V Veteranized polyphenols for the Berkem® range.

Services

- Plant extraction, all solvents (fresh or dry plants).
- Grinding and preparation.
- Concentration, purification.
- Static and dynamic drying.
- Asemination.
- Powder mixes.
- Fine chemistry: protection of active substances by esterification, etherification or hemisynthesis.

FIELDS OF APPLICATION

- FOOD
- COSMETICS
- PHARMACEUTICAL
- ANTIABORTIVES

Good Manufacturing Practices

- Production workshops organized in versatile, adaptable units.
- High-performance pilot installations to guarantee industrial transposition and allow relevant quantities to be produced.
- Analysis laboratory and equipment for extract characterization, HPLC, CPG, IR, with reference to the European pharmacopeia.
- Research & Development Laboratory, a 7-person team dedicated to the development of your project.
- Production and Quality control at each stage of production: Production site with ISO 10015 certification (version 2008).
- FOOD safety approach:
  - Adoption of the HACCP approach.
  - Goal: ISO 22005 certification meeting the food safety requirements.
- Good Manufacturing Practices:
  - KAPSAG® certification for substances for pharmaceutical use-validated respecting GMP.

Our Commitments
Production and Quality

Our teams’ commitment to confidentiality

Our teams, as a multi-disciplinary whole, are committed to protecting each customer’s knowledge and know-how.

A resource person dedicated to your project

Berkem focuses on a local service and availability for its customers. Consequently, a specific person will be appointed at the very beginning of our collaboration to work alongside you throughout the entire process to extract your specific plant substance.

From development to production:
control of the key stages in your project

- Complementarity and Integrated services:
  - Research & Development Laboratory, a 7-person team dedicated to the development of your project.
  - Analysis laboratory and equipment for extract characterization, HPLC, CPG, IR, with reference to the European pharmacopeia.
  - Production workshops organized in versatile, adaptable units.

Requirements

Berkem’s high-performance installations make it possible to achieve high extraction yields and levels of purity that are among the best on the market.

Quality and traceability guarantees

We guarantee the quality of the extracts through control at each stage of production. Production site with ISO 10015 certification (version 2008).

Production and Quality

- Production and Quality control at each stage of production.
- A resource person dedicated to your project.
- Attention to each step of production.
- Quality and traceability guarantees.

Berkem in figures

- An independent SME on a human scale, a specialist in chemical formulation and plant extraction.
- 50 years’ experience in the extraction of active principles.
- A site in the south-west of France in Gardonne.
- 30,000 m² of plant and buildings, of which 3,000 m² covered.
- Presence on the European and international markets, 50% of turnover recorded for exports.
- An annual processing capacity of more than 5,000 tonnes of plants.

Audacious and Creative

30 years ago, Berkem was the first specialist in polyphenol extraction.

Since its founding the firm has perpetuated the tradition of quality products and an authentic service to ensure the implementation of ambitious projects and customer satisfaction.

Berkem anticipates trends in addition to technological, regulatory and sociological developments on its markets.

Audacious and Creative

- Production capacities adaptable to demand.
- A pilot workshop for technology transfer.
- Workshops organized in flexible units that can be adapted to your demands and technical developments.
- A pilot workshop for technology transfer.
- Production capacities adaptable to demand.

Wisdom

Acquired in the Trade of extracting active plant elements from the bark of maritime pines and grape seeds.

Our know-how in plant extraction enables us to offer you a range of extraction technologies to promptly meet your demand in the best possible way.

Active by principle

- Motivated, reactive teams for each project.
- Logistics, maintenance, purchases, trading, marketing, quality control, production and R&D laboratory: all these integrated departments work together in complete confidentiality for the success of the most audacious projects.
- High-performance tools at your service.
- Workshops organized in flexible units that can be adapted to your demands and technical developments.
- A pilot workshop for technology transfer.
- Production capacities adaptable to demand.

Wisdom

- Ingenuity and dedication of our teams: our knowhow.
- An annual processing capacity of more than 5,000 tonnes of plants.
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Our know-how
Unique plant extracts

Tailor-made purified plant extracts and active principles
Produced from various types of plant raw materials: leaves, roots, barks, flowers, seeds, pips, fruits, vegetables, etc., and semi-transformed products (leaves, powders).

Industrial solutions adapted to your procedures
- Liquid extracts: aqueous, alcoholic, hydro-alcoholic and hydro-glycolic solutions
- Semi-solid forms: soft extracts, concrete
- Organic certified extracts and according to specifications: Kosher or Halal.

Antioxidant active principles
- Custom fruit and vegetable polyphenols
- Grape and pine derived antioxidants. Vitisol® and Pineol®
- Vastly polyphenols for human health: Berkem® range.

FIELDs OF APPLICATION
- FOOD
- COSMETICS
- ANTIAGING
- PHARMACEUTICAL

Our Services
- Plant extraction, all solvents (fresh or dry plants).
- Grinding and preparation.
- Concentration, purification.
- Static and dynamic drying.
- Asemination.
- Powder mixes.
- Fine chemistry: protection of active substances by esterification, etherification or hemisynthesis.

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Production and Quality
- Our teams’ commitment to confidentiality
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- Production workshops organized in versatile, adaptable units.
- Requirements
- Berkem’s high-performance installations make it possible to achieve high extraction yields and levels of pureness that are among the best on the market.
- Quality and traceability guarantees
- We guarantee the quality of the extracts through control at each stage of production. Production site with ISO 9001 certification (version 2008).
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Industrial solutions adapted to your procedures
Powder forms, aerosol and powder premixes.
Liquid extracts: aqueous, alcoholic, hydro-alcoholic and hydro-glycolic solutions.
Semi-solid forms: soft extracts, concretes.
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Berkem’s high-performance installations make it possible to achieve high extraction yields and levels of pureness that are among the best on the market.

Quality and traceability guarantees
We guarantee the quality of the extracts through control at each stage of production. Production site with ISO 10018 certification (version 2008).

Food safety approach
• Adaptation of the HACCP approach.
• Goal: ISO 22005 certification meeting the food safety requirements.

Good Manufacturing Practices
• AQPAS/P certification for substances for pharmaceutical use according GMP.

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Our Tools

Extractors with filtering bottom
- Pilot scale 200 litres, stainless steel
  - Work pressure: Vacuum / Atmospheric pressure.
- Tournaire 300/300 litres, stainless steel
  - Work pressure: Vacuum / Atmospheric pressure.

Extractors
- 3 maceration tanks of 6000 litres (steam heating)
  - Characteristics: Semi-continuous system.
  - Extraction rate for a single extract: 20 tonnes of plant/week.

Falling film evaporator
- 3000 litres, stainless steel
  - Water: 1 T/H - Solvent: 3 T/H

Filters
- Ultrafiltration pilot, area 9m²
  - Filtration threshold: 0.2 µm, mineral membrane.
- Filter press, 90m²
  - Work pressure: 15 bars maximum.

Reactors
- 200 to 10000 litres
  - 6 enamelled reactors, Pyrex columns and accessories.
  - 10 stainless steel reactors.
  - Work pressure: Vacuum / Atmospheric pressure.

Low-pressure purification columns
- 450 mm and 800 mm
  - Variable bed height.

Ovens / drying
- 1 vacuum oven (100 kilos)
- 1 ventilated oven (300 kilos)
- 1 stirring dryer (50 kilos)

Plough mixer
- Mix of powders
  - Capacity: 1 tonne of powder/batch.
  - Food and pharmaceutical industries.

Atomizer
- 1 kilo pilot
- Turbine atomizer
  - Rate: 100 litres water/hour
  - Minimum batch: 100 litres of solution.

An Ecoresponsible company

Respect of the environment: Transparency and sustainable development for future generations. The firm supports, within the UIC (Union des Industries Chimiques – Union of Chemical Industries), the “commitment to progress” programme that aims to reduce the release of pollutants into the environment and improve staff safety.

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  • Characteristics: Semi-continuous system.
  • Extraction rate for a simple extract: 30 tonnes of plant/week.

Falling film evaporator
- 3000 litres, stainless steel
  • Work pressure: Vacuum / Atmospheric pressure.

Filters
- Ultrafiltration pilot, area 9 m²
  • Filtration threshold of 20KDa, mineral membrane.
- Mole filters

Reactors
- 200 to 10000 litres
  • 6 enamelled reactors, Pyrex columns and accessories.
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Low-pressure purification columns
- 450 mm and 800 mm
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Ovens / drying
- Vacuum oven (100 kilos)
- Ventilated oven (300 kilos)
- Stirring dryer (50 kilos)

Plough mixer
- Mix of powders
  • Capacity: 1 tonne of powder/batch.
  • Food and pharmaceutical industries.

Atomizer
- 1 kilo pilot
  • Rate: 100 litres water/hour.
  • Minimum batch: 100 litres of solution.
  • Capacity: 2 tonnes of liquid for atomizing / 24 hour.

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Atomizer
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