











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 (oils, powders).

Services



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

Industrial solutions adapted to your procedures

- → Powder forms: atomisat and powder premix.
- → 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 Hallal.

Antioxidant active principles



- Custom fruit and vegetable polyphenols.
- Grape and pine titrated antioxidants: Vitisol® and Pineol®.
- Vectorized polyphenols for cosmetics:

Berkemyol® range.

Intermediary capacities Flexibility

From 30 KILOS TO 500 TONNES: we can adapt to your demand.

FOOD

COSMETICS

FIELDS OF APPLICATION



ANTIOXIDANTS



PHARMACEUTICAL







R&D tests, discussions and development of optimal solutions for your extract







Our Commitments **Production and Quality**



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.
 - High-performance pilot installations to guarantee industrial transposition and allow relevant quantities to be produced.
 - 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 guality of the extracts through control at each stage of production. Production site with ISO 9001 certification (version 2008).

- → Food safety approach
 - Adoption of the HACCP approach.
 - Goal: ISO 22000 certification meeting the food safety requirements.
- → Good Manufacturing Practices
 - AFSSAPS certification for substances for pharmaceutical use obtained respecting GMP.

















Our Tools

Extractors with filtering bottom

- → Pilot Guédu 200 litres, stainless steel
 - Work pressure: Vacuum / Atmospheric pressure.
- → Tournaire 3000 litres, stainless steel
 - Work pressure: Vacuum / Atmospheric pressure.

Extractors

- \rightarrow 3 maceration tanks of 6000 litres (steam heating)
 - Characteristics Semi-continuous system.
 Extraction rate for a simple extract: 30 tonnes of plant/week.

Falling film evaporator

- \rightarrow 3000 litres, stainless steel
 - Water 1 T/H-Solvent 3 T/H Continuous flow system.
 Minimum batch: 4 to 5 m³.
 - Work pressure: Vaccum / Atmospheric pressure.

Filters

- → Ultrafiltration pilot, area 9m²
 - Filtration threshold of 20KD, mineral membrane.
- → Filter press 90m²
 - Work pressure: 15 bars maximum.
- → Mobile filters

Reactors

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

Low-pressure purfication columns

- \rightarrow 450 mm and 800 mm
 - Variable bed height.

Ovens / drying

- \rightarrow 1 vacuum oven (100 kilos)
- \rightarrow 1 ventillated oven (300 kilos)
- \rightarrow 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.
 - Capacity of 2 tonnes of liquid for atomizing / 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 DE PAOCRES 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.



