

Toll Manufacturing Services



By **NATUREX** 
Ultimate Botanical Benefits

20 years of experience in Toll Manufacturing Services

Backed by its flexible facilities and experienced staff Naturex has the capabilities to provide a comprehensive Toll Manufacturing Service.

In manufacturing, size matters

Naturex has one of the largest extraction and drying capacities in the world. This means we are able to produce thousands of tons of active ingredients per year. In addition, our purification equipment enables us to produce very highly-purified compounds. With thirteen production plants worldwide, we are sure to have a location close to your market. Our highly-flexible production facilities are capable of handling a wide variety of raw materials in quantities to suit you: from just a few hundred kilos up to several hundred tons of finished product. Naturex is able to produce according to a number of different standards, including cGMP, Food, Organic, etc.

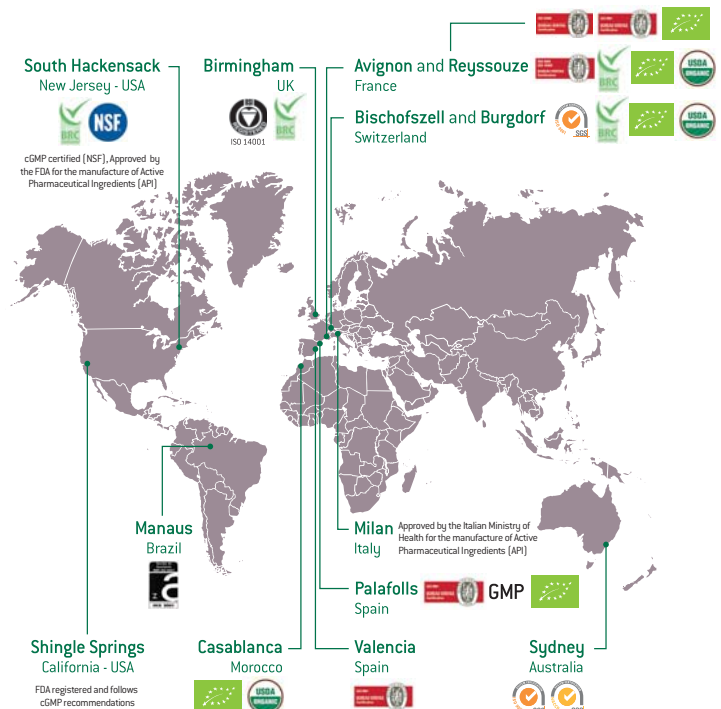
Uncompromising quality

The group employs rigorous standards of analysis including tests for heavy metals, pesticides, and microbiology. A central quality control laboratory is continually developing and validating new analytical methods. The thirteen production sites have their own quality control laboratory for in-depth control of the entire manufacturing process.

From project to manufacturing

Supported by a variety of advanced analytical instrumentations (NMR, HPLC-MS, GC-MS, ICP-MS, HPTLC, etc.) and highly-skilled R&D and manufacturing teams, Naturex is able to provide full support at each step of your project: feasibility study, lab and pilot trials, industrialization and manufacturing.

Industrial network



Certifications

Quality and environmental certificates:

- ISO 9001, ISO 14001, ISO 22000
- Food BRC
- USDA and European Organic
- cGMP (NSF)
- API (Active Pharmaceutical Ingredients)
- Kosher and Halal

Extraction capabilities

- Raw material preparation (grinding)
- Batch extractors
- Percolators
- Separation by centrifugation or filtration
- Concentrators (batch and falling film)

With various solvents available

Water, ethanol, methanol, hexane, acetone, heptane, etc.

Purification capabilities

- Crystallization
- Semi-synthesis reactors
- Ion exchange columns
- Resin column chromatography
- Ultra and nano membrane filtration
- Distillation columns

Spray-drying capabilities

- Large atomizers (> 700 kg/h w.evap)
- Small atomizers (< 100 kg/h w.evap)
- Pilot atomizers (< 10 kg/h w.evap)
- Spray-dryer with integrated fluid bed

Drying capabilities

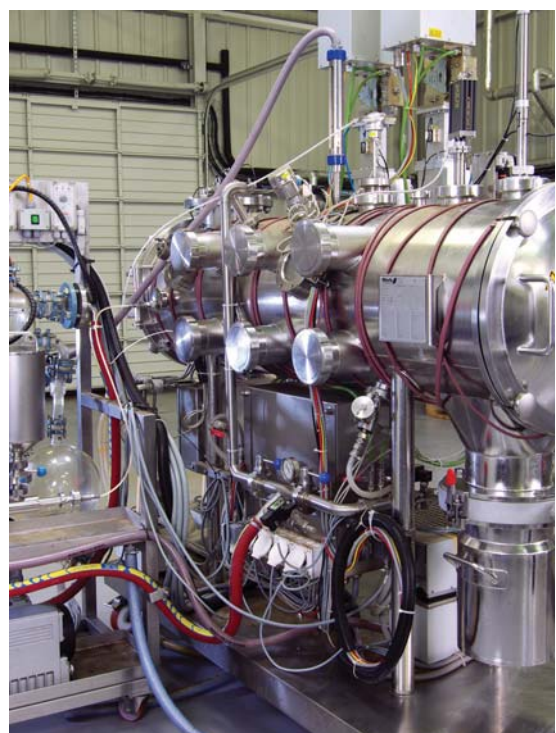
- Fluid bed dryers
- Drum dryers
- Vacuum belt dryers
- Vacuum oven dryers

Granulation capabilities

- Roller-compaction

Additional capabilities

- Liquid batching for emulsion preparation
- Powder sieving
- Powder blending
- Liquid and solid packing
- Aseptic packaging line
- Cold pressing



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