

Nutraceuticals & Functional Foods

POS Pilot Plant: Your Strategic Advantage

Nutraceuticals is our largest area of business activity. Join the ranks of many successful organizations who use POS as their nutraceutical development partner to gain strategic advantages in these critical areas:

- entering markets faster
- overcoming regulatory hurdles
- augmenting in-house resources

Our experienced, professional staff and premiere facility combine to give you the tools you need in the highly competitive nutraceutical and functional food industries.

Quality Assurance & Regulatory Compliance:

- cGMP, GLP, HACCP, CFIA and HPB compliance
- Health Canada NHP Site license for manufacturing natural health products
- Conformance to ISO 9001:2000
- Traceability and food safety systems

Knowledge and Experience

Developing commercially viable nutraceutical and functional food products requires knowledgeable staff, innovative capacity, equipment resources, and a thorough understanding of regulatory requirements. POS provides:

- Three decades of experience
- Process and product development
- Product standardization
- Analytical methodology development
- Process scale-up
- Ingredient sourcing
- Shelf life testing
- Regulatory compliance
- Antioxidant evaluation

- Process and product optimization
- Consulting

Total Capability Under One Roof

- Product development from grams to tons
- Use any or all of our 5 large and versatile processing areas
- Diverse solvent extraction capabilities with many different solvents and raw materials
- 11 fully equipped laboratories for bench scale product development and product analysis
- 24 hour-a-day operating schedule for continuous processing of your materials
- Analytical services integrated into each processing step for superior results
- Inbound traceback of raw materials; outbound tracking of final products; inspection and recall systems
- Strict confidentiality protocols in place for every project to protect your investment
- Comprehensive process documentation and sampling plans to speed process development



POS Pilot Plant has the range of processing options you need for success including experienced equipment operators.

Access Unique Processing Equipment

POS will lead you from concept to mini scale testing to pilot scale development and finally to market production – all in one facility. Our equipment list is especially suited to nutraceutical and functional food products.

Crushing

- **Cold Press**

Milling & Mixing

- **Mills** – Hammer, pin, flaking, cracking, disc, Szego, comminuting, dehullers
- **Mixers** – Wet and dry mixers including ribbon, twin shell blender, homogenizers

Extraction (solvent and/or aqueous)

- **Extractors:** Crown, Soxhlet, Heinkel inverting basket centrifuge, supercritical fluid
- **Desolventization:** Various units for solids and liquid desolventization

Drying and Evaporating

- **Dryers:** Spray, fluidized bed, convection and freeze
- **Evaporators:** Flash, thin film, scraped surface, rising film

Separation Equipment

- **Chromatography:** CPC (centrifugal partitioning chromatograph), HPLC
- **Filtration:** Plate and frame, hollow fibre, ultrafiltration units
- **Air classifiers:** Centrifugal and gravity
- **Centrifuges:** Decanter, desludger, basket, inverting basket, nozzle bowl, solid bowl

Other Equipment

- Homogenizers
- Microfluidizer
- Littleford reactor/dryer
- Oilseed crushing and complete oils processing line
- Pasteurization

This is just a partial list and we regularly acquire new equipment. For more complete information on these resources, please contact us.

About POS

POS is a confidential contract research organization working in bioprocessing related industries such as food, nutraceuticals, cosmetics, fats & oils and animal feeds.

All services at POS are confidential, fully integrated and supported by in-house departments specialized in Analytical Services, Quality Assurance & Regulatory Compliance, Pilot Plant Services, Logistics, and Information Services.



The Heinkel centrifuge in the flammable pilot plant is especially suited for nutraceutical extractions.

For more information contact:

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