

Contract Services





SYNTHESIS & ISOLATION

ChromaDex has acquired a wide range of experience and expertise in the natural products area. Our base in isolation of reference standards, reference material development, and analytical testing has led to the formation of a world class team of Natural Product Chemists, Analytical Chemists and Pharmacognosists. ChromaDex Contract Research Services can help customers solve a wide variety of challenges, from sourcing appropriate raw materials and identification of new compounds to process development for large scale manufacture. This Contract Research Service is ideal for any sized organization that wants to leverage the experience of our expert team to solve problems or to aid in the development of new products.

Examples of contract research services:

- Target Compound Isolation & Characterization
- Botanical Sourcing and Authenticity Testing
- Synthetic Chemistry
- Process Development

Target Compound Isolation & Characterization

Isolating or extracting a specific chemical compound or family of compounds is a service that ChromaDex has a wealth of experience in performing. Whether you have your own process or if you want ChromaDex to develop the process for you, ChromaDex can handle all of your milligram to kilogram compound needs. For example, we can:

- Isolate a key compound from biomass or a complex matrix
- Identify side stream compounds of interest during the isolation process
- Separate a specific compound from an intermediate or extract product
- Create a library of compounds from an extraction process for use in high throughput screening

Specifically, some of the compounds we have isolated include:

- Saponins, triterpenes, triterpene glycosides
- Flavonoids and flavonoid glycosides
- Carotenoids
- Quassinoids and alkaloids
- Fatty acids
- Phenolic acids
- Tannins
- Quinones and anthraquinones
- Phytosterols and steroid related structures
- Limonoids
- Many others....



Synthetic Chemistry

Synthesizing a specific compound can be a more cost-effective means of obtaining a consistent material at the required quantities and purity. We are uniquely positioned in providing services that:

- Perform feasibility studies
- Identify economical synthetic routes to produce a targeted product
- Synthesize the desired final product using low-cost intermediate or starting materials
- Take an existing synthetic route and reduce the total number of required steps
- Improve yield from a client's synthetic process



Process Development

Once you have selected your biomass and completed your research, it is time to scale up. ChromaDex works in all phases of project development, from process concept to full scale production. This includes process research and innovation, scale-up, design, construction, operation of pilot plant or laboratory units, technology transfer, and optimization of manufacturing processes.

Our process development team also taps into industry experts as well as outside technical resources like universities, government and private research organizations, and equipment vendors. The real value for clients is in increased rate of innovation and reduced time to-market for new products and processes. By working closely with the scientific, engineering, and business staff of its clients, ChromaDex builds a seamless project team, acting as an extension of the client's own R&D capabilities.

We have completed ingredient process development research projects for industries such as dietary supplements, cosmetics, and pharmaceutical.

Aspects of process development:

- Analytical development (pre-process)
- Process research (milligrams and grams)
- Process development
- Process scale-up (grams to kilograms)
- Capital and operating cost evaluation
- Cost-benefit analysis
- Project management and process engineering
- Detail design
- Process transfer




Characterization

Chromadex also provides services to create custom reference standards using your provided materials or pure products if you already have them but need it validated by a third party. We also offer services to weigh out, make solutions of, label, and create vials or ampoules of selected compounds as well.

Our characterization testing services include:

- HPLC-DAD/CAD
- GC-MS/FID/NPD
- HRMS (QToF)
- NMR
- UV-Vis
- Residual Solvents by GCMS
- Water (Karl Fischer)
- Metals
- Others (microbial, elemental, XRD, etc.)

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Synthesis & Isolation



Characterization



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