

# INTERTEK USA NUTRACEUTICAL AND BOTANICAL LABORATORY

ANALYTICAL TESTING SERVICES FOR NATURAL INGREDIENTS AND NATURAL PRODUCTS

## Your Analytical Testing Partner

- Accelerate product development
- Protect your brand
- Achieve regulatory compliance



The growing demand of regulatory compliance, quality and transparency of dietary supplement products, functional foods and cosmeceuticals has led to greater importance of analytical testing and regulatory compliance for brand protection and product success. At Intertek, we understand the regulatory requirements and are ready to provide you regulatory and analytical testing for your entire product life cycle from ingredients to product launch. With a core scientific and technical expertise in botanical chemistry, analytical chemistry, analytical biochemistry and microbiology analysis, Intertek Champaign Laboratories provide analytical testing for nutraceutical, functional foods, pharmaceutical and cosmetics industries from quality control to regulatory compliance.

### The Challenge

Dietary supplement, functional foods and cosmeceuticals are regulated by FDA in US and other government agencies in different countries for their safety, quality and product claims. Companies in these industries also must comply with cGMP manufacturing process and provide product quality assurance as demanded by government regulations and consumers, and for their brand protection. Quality issues may occur during the entire product life cycle from ingredient to finished products.

Faced with growing regulatory and consumer demand and yet limited internal technical resources, companies increasingly depend on external third party independent laboratories to provide the required scientific and technical capabilities to speed their products to market and ensure brand success.

### Our Solutions

As an analytical laboratory within global Intertek's vast network of laboratories, Intertek Champaign can provide you analytical testing solutions in our highly competent independent laboratory. We offer fully integrated support from our expert laboratory technical teams for needs ranging from analytical method development, validation to sample analysis supported by a state-of-the-art analytical platforms and technology in our cGMP laboratories that aims to exceed industry or regulatory requirements. Our customer-focused laboratory and support teams also provide access to vast global Intertek testing expertise for regulatory compliance, inspection, training, auditing and certification for diverse industries with a local contact for rapid response to your needs.

## CASE STUDY

### Botanical ingredient identification and potency verification:

Botanical ingredients of nutritional and pharmacological effects are increasingly common in nutraceutical and cosmetic products. Identity and potency of active ingredients in complex botanical materials is of paramount importance for product quality, safety and regulatory compliance. Analytical tests are performed with a range of techniques such as HPTLC, HPLC, GC/MS and LC-MS/MS and more to detect and qualify the key chemical ingredients, thus determine the identity and potency of the raw ingredients and finished products.

## CASE STUDY

### Product development and stability study support:

In compliance with cGMP regulation, nutraceutical products must undergo a stability study and labeled accordingly. Stability studies are designed in line with regulatory guidance, USP and ICH recommendations for the relevant stability conditions and analytical tests. Appropriate analytical methods are validated for the specific sample matrix. Stability studies are project-managed throughout the study to ensure quality and consistency in data acquisition, study analysis and outcome.



### Our Capabilities

Striving for excellence in our core competencies provides you with a comprehensive spectrum of analytical testing services with advanced technologies to support analytical needs.

- Nutraceutical, natural (herbal) products – Increasingly more biologically and pharmacologically active natural ingredients are used in a variety of products ranging from dietary supplements to consumer health care products. Regulatory and consumer advocacy demand increasingly rigorous analytical testing and regulatory compliance. We can meet your needs with our extensive expertise and experience in natural botanical chemistry and chemical analysis of natural ingredients and products.

Adulteration of herbal and nutritional products and key food ingredients require advanced testing to ensure both purity and safety, while maintaining the regulatory compliance of your products. We can support you through our advanced analytical chemistry tests of product purity and potency.

- Dietary nutrient test in supplement and functional foods – Dietary nutrients such as vitamins and more are increasingly used in nutritional supplements and functional foods. Supporting your needs for quality and regulatory compliance, we provide analytical testing to identify and quantify nutrients in ingredients and products using regulatory or globally recognized standardized methods.

- Functional beauty products – Functional cosmetics beauty products are often supplemented with bioactive ingredients from plant, marine and other sources. We can offer you an array of analytical tests of active chemical ingredients in addition to other safety related tests such as heavy metal, residue solvent and microbial tests using standardized methods in compliance with regulation for your products.

- Pharmaceutical over-the-counter (OTC) products – Regulated by FDA in US, EMEA in Europe and other government agencies globally, your OTC product must follow strict quality and safety criteria in manufacturing and distribution. Our rigorous chemical and microbiological testing for formulation ingredients and stability of OTC can support your needs.

- Specialty testing services – Shelf-life and product stability test: Product stability is a critical attribute in the product life cycle of nutritional supplements, functional foods, cosmetics and OTC products. We provide product shelf-life and stability test in accordance with industry and regulatory standards.

Analytical method development and validation: We provide analytical method development on multiple platforms specific to your testing requirements. We offer an in-depth scientific and technical expertise in analytical chemistry, biochemistry, plant biology, microbiology, food and pharmaceutical sciences.

We provide these services with our dedicated client services team and consult with our senior scientific and technical staff when required.

### Your Benefits

Intertek is a leading Total Quality Assurance provider to industries worldwide. Through our network of more than 1,000 laboratories and offices and over 42,000 people in more than 100 countries, the Group is re-defining the industry with our Total Quality Assurance proposition.

Intertek Champaign Laboratory is ISO/IEC 17025 accredited, FDA registered and cGMP 110, 111, and 210-211 compliant. We go beyond physical quality control to provide total peace of mind through our innovative and bespoke Assurance, Testing, Inspection and Certification solutions at every step of the supply chain.

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