

DIETARY NUTRIENTS, SUPPLEMENTS AND FUNCTIONAL FOODS

QUALITY, PURITY AND SAFETY TESTING SERVICES

Your Dietary Ingredient Quality and Regulatory Testing Partner

- Global leader from regulatory consulting to analytical testing for nutritional product industry
- Over 15 years of in-depth expertise in natural botanical ingredient tests for various products
- ISO17025 and cGMP111, 210/211 complied stateof-art laboratory analytical capabilities

The growing demand of population based nutrition needs, met by rapid advancing of nutritional sciences and understanding the health benefits of new ingredients has led to the substantial growth of the dietary supplements and functional goods over the last decade. Consumers are presented with an ever increasing number of natural or synthetic nutritional ingredients in a vast array of products. FDA and other regulatory agencies continue to update respective regulatory requirements to ensure product quality and safety with guidance to the industry.

The Challenge

In addition to traditional nutritional supplement ingredients such as vitamins and minerals, new supplement ingredients for various health conditions are increasingly available in different formulations and product forms. Under the DSHEA, manufacturers and distributors must ensure compliance of identity, potency and purity requirements. The dietary supplement industry is faced with complex analytical



support demands yet has limited in-house expertise and resources and strengthening regulations. Companies increasingly turn to the in-depth knowledge and analytical capability of dedicated external laboratories for their needs in botanical ingredient identification.

Our Solutions

Intertek can provide you identification, potency, purity and safety testing based on our breadth of expertise from over 15 years focused analytical work in natural and synthetic supplement ingredients and products. We can support your routine analysis such as nutrition fact or supplement fact panel as well as more difficult testing for natural ingredients in supplements and functional foods throughout the product life cycle. Our highly experienced scientific and technical staff (many with Ph.D. and M.S. degrees) can provide close support to ensure your needs are met.

CASE STUDY

Analytical support for new Vitamin E formulation in clinical study:

Vitamin E, with its multiple forms of tocopherols and tocotrienols, are present in many diets. They are associated with various health conditions including heart health and eye health as examples. Our client required in-depth analytical support for their formulation development to support a clinical study. Drawing upon our expertise and capabilities, Intertek Champaign Labs provided support in optimizing and validating the analytical methods for raw materials and soft gel formulation used in the clinical study, and further provided the release testing and the stability study required to meet the FDA requirement and clinical study protocol. This example highlights the expertise and technical resources that Intertek can provide our clients for their dietary supplement products.

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CASE STUDY

Independent testing of ingredient claims in supplement products:

Natural ingredients represent a rapidly growing list of new ingredients used in dietary supplement and functional foods. Our client was in the development and early manufacturing stage of a dietary supplement containing an artichoke extract. Their lack of in-house technical know-how and resources to support the analytical needs on the ingredients and formulated products presented significant challenges to the launch of their new products. Leveraging our in-depth analytical expertise, Intertek Champaign Labs provided technical consultation, developed and validated the analytical methods, and provided the testing to ensure the product quality and protect client's product brand reputation.



Our Services

Intertek Champaign Laboratories offers a wealth expertise and technical capability for nutraceutical ingredient identification, potency and purity tests in our state-of-theart laboratories are equipped with analytical technologies such as HPTLC, HPLC, GC/GC-MS, LC-MS/MS, ICP, FT-IR, RT-PCR, wet chemistry, biochemical and microbiological analysis for both raw ingredients and finished products. Appropriate techniques are chosen to ensure critical ingredient markers are analyzed while interference by complex botanical matrix is addressed. Our laboratories can provide the analytical testing using either published (e.g., USP, AOAC) or cGMP validated methods in compliance with regulatory and client requirements.

Below are examples of our analytical services for dietary nutrients, supplements and functional foods:

 Nutrition fact and supplement fact testing – Full range of the analytical testing for Nutrition Fact and Supplement Fact testing and product label

- Quality, potency and purity testing for broad category of dietary nutrients – Vitamins, minerals, proteins, carbohydrates, fat, sugar and amino acids
- Energy & cellular health ingredients and products – NADH, ATP, CoQ10, Ginseng and Green Tea
- Digestive supplement ingredient and products Amylase, lipase, carbohydrate enzymes and protein digestive enzymes
- Joint health ingredients and products - Glucosamine, Chondrotin sulfate, hyaluronic acid and collagens
- Heart healthy ingredients and products Omega-3, DHA/EPA, CoQ-10, phytosterols, Gugull and red yeast extracts
- Prostate health ingredients and products
 Saw palmetto, pygeum, pomegranate phytochemical ingredients and lycopene
- Natural weight control ingredients and products – Citrus aurantium, Guarana, Green tea, Garcinia cambogia and Yarb mate

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

The Intertek Advantage

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.

We go beyond physical quality control to provide total peace of mind through our innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently, with precision, pace and passion, enabling our customers to power ahead safely.

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