

intertek

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ANALYTICAL TESTING SERVICES

NUTRITION SUPPLEMENTS & NUTRACEUTICALS



Intertek Champaign laboratories specialize in analytical testing to assess dietary supplements and natural products for quality and regulatory compliance. Through our extensive expertise in analytical chemistry, botanical chemistry, analytical biochemistry, and microbiology analysis, we offer analytical testing of functional foods, nutraceuticals, pharmaceutical products, and cosmetics. This booklet lists the types of supplements we test, our analytical technologies, and other capabilities performed at our cGMP laboratories. Please note that there may be some methods that can be performed by our experts that are not listed. Please contact our Client Services team for detailed methods and pricing.

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NATURAL/FUNCTIONAL PRODUCTS

Acai - Anthocyanins
Algae/Alfalfa - Carotenoids
Algae/Alfalfa - Chlorophylls/Phycocyanin
Algae - Pheophytin/Pheophorbide/Chlorophyllins
Aloe Vera - Quinones/Alkaloids/Polysaccharides
Amla - Tannins
Andrographis - Andrographolides
Apple Ext. - Phloridzin/Phloretin
Artemisia - Artemisinin
Artichoke - Cynarine
Ashwagandha - Withanolide
Asparagus - Asparagosides
Astragalus - Astragalosides or Polysaccharides
Bacopa - Bacoside A and B
Bee Pollens - 10-HDA
Beets - Betalains
Berry Juice/Ext. - Free Ellagic Acid/Hydrolyzed Ellagic
Bilberry, Blueberry & Blackberry - Anthocyanidin Acids
Black Cohosh - Triterpene
Black Tea - Theaflavins plus Catechins
Boldo - Boldine / Total Boldine Alkaloids
Boswellia - Total Boswellic Acids
Broccoli, Cabbage, Bean Sprouts - Glucosinolates
Bupleurum (Chaihu) - Saikosaponins
Burdock - Arctiin/Arctigenin
Cascara Sagradas - Cascarosides/Casanthranol
Cat's Claw - Oxindole Alkaloids
Cayenne - Capsaicin/Heat Unit
Celery - Sedanolide and Phthalides
Chamomile - Apigenin plus Flavonoids
Chasteberry - Vitexin, Casticin, or Agnuside
Cinnamon - Flavonoids/Polyphenolics/Cinnamaldehyde
Citrus Aurantium (Bitter Orange) - Synephrine and Other
Alkaloids
Citrus Ext. - Hesperidin/Bioflavonoids
Citrus Ext. - Polymethoxylated Flavones
Cocoa Ext. - Theobromine/Group Biogenic Amines
Coleus Forskohlii - Forskolin/Atropine/Scopolamine
Cordyceps - Cordycepic Acid/Cordycepin/Adenosine
Corydalis (Yanhusuo) - Tetrahydropalmatine
Cranberry Ext. - Organic Acids/Phenolics
Curcuma - Curcuminoids/Sesquiterpenes
Dandeloin - Phenolics
Danshen - Tanshinones
Devil's Claw - Harpagoside
Dong-Quai - Ligustilide/Ferulic Acid



Echinacea - Echinacosides/Total Phenolics
Eleuthero (Siberian Ginseng) - Eleutherosides
Epimedium (Horny Goat Weed) - Icariin/Profile
Eurycoma - Eurycomanone
Eurycoma - Eurypeptide/Polysaccharides
Evodia - Evodiamine/Evodine/Rutaecarpine
Fenugreek - Saponins /4-OH-Isoleucine
Feverfew Ext. - Parthenolide
Flax seed - Lignan SDG
Garcinia - HCA
Garcinia Mangostana - Mangostins
Garlic - Allyl Sulfides/Thiosulfates
Garlic Powder/Extracts - Allicin/Alliin
Ginger - Gingerols and Gingerdiones
Ginkgo Ext. - Flavonoid Glycosides/Terpen Lactones
Gingko Ext. - Ginkgolic Acid
Ginseng Ext. - Ginsenosides
Goldenseal - Hydrastin and/or Berberin
Gotu Cola - Asiaticosides
Grape Seed/Pine Bark - OPC/Procyanidins
Grape Skins - Polyphenols/Resveratrol and Piceid
Grass - Barley/Oats/Wheat - Phenolic/Flavonoids/Avenacosides
Green Coffee - Phenolic Acids Profile
Green Tea Ext. - Total Catechins or EGCG
Guarana - Caffeine
Guggul Ext. - Guggulsterones
Gymnema - Cymnemic Acids
Hawthorn - Vitexin and Hyperosides
Hops - α -Acids and β -Acids
Horse Chestnut - Escin
Horsetail - Silica
Lagerstroemia - Corosolic Acid
Licorice - Glycyrrhizin/ Liquiritin
Luo Han Fruit - Mogrosides
Maca - Glucosinolates or Macamides & Macamines
Magnolia - Honokiol and Magnolol
Marigold Flower - Lutein/Carotenoids
Mastic Gum - Mastic Acids
Milk Thistle - Silymarin
Mulberry - 1-Deoxynojirimycin (DNJ)
Mushroom - Polysaccharides, Beta-Glucan/Ganoderic Acids
Nettle - Scopoletin/ β -Sitosterol, Silica
Noni-Anthraquinones
Olive - Oleuropein/Hydroxytyrosol/Verbascoside
ORAC - DPPH/FARP, TEAC/Fluorescence
Passion Flower - Vitexins/Flavonoids
Pine Bark - OCP/Procyanidins
Polygonum - Resveratrol and Glycosides
Pomegranate - Punicalagins/Ellagic Acid



Red Clover - Isoflavones
Red Yeast Ext. - Lovastatin (Monacolin K)
Rhodiola - Rosavin/Salidroside
Rosemary - Diterpenes Carnosic Acid or Rosemarinic Acid
Royal Jelly - 10-DHA
Saw Palmetto - Fatty Acids/Phytosterols
Seaweeds - Fucoxanthins/Fucoidan
Schisandra - Schizandrin
Scutellaria - Baicalin/Baicalein
Senna Ext. - Sennosides
Sesame - Sesamine Lignan
Soy/Kudzu Ext. - Isoflavonoids
St. John's Wort - Hypericin/Hyperforin
Stevia - Steviosides
Tomato Ext. - Lycopene
Tribulus Terrestris - Saponins/Protodioscins
Uva-Ursi - Arbutin
Valerian Ext. - Valerenic Acids
Wild Yam - Diosgenin
Willow Bark - Salicin
Yeast Cell Walls - β -Glucan
Yohimbe Ext. - Yohimbine
Yucca - Saponins or Steroidal Glycosides
Other Herbal Extracts

DIETARY NUTRIENTS

Acetyl-Carnitine/-Choline
Acetyl-Glucosamine/-Glutamine/-Cysteine/-Glycine/-Tyrosine
Adenine/Adenosine/Cytosine/Thiamine/Guanine
Agmatine Sulfate
Arginine Malate or Arginine Pyroglutamate
BCAA - Valine/Leucine/Isoleucine
Benfotiamine
Betaine
Bioperine - Piperine
Caffeine
Carnitine
Carotenoids - Astaxanthin/ α -Carotene/Lycopene/Lutein/
Zeaxanthin
Carnosine/Acetyl Carnosine
Cetyl Myristoleate/Cetyl Palmitoleate
Chitosan/Chitin
Chondroitin Sulfate
Chromium Picolinate
Chrysin/Common Flavonoids such as Rutin, Quercetin
Citrulline/Ornithine Amino Acid Derivatives
Coenzyme Q-10/idebenone
Collagen
Creatine
Creatine Ethyl Ester/Creatinophosphate/Creatine-o-phosphate



Dietary Fiber / RMD
Diindoly Methane (DIM)
Diiodo-L-Thyronine (T2)
PABA/GABA
Glucaric Acid or Guanidine / Galantamine or
Guanidinopropionic Acid
Glucosamine (-SO₄, -HCl)
 α -Keto-Glutamate or Pyroglutamate/Glycocyamine
Glutathione - Oxidized & Reduced
Huperzine A
Hyaluronic Acid
Hydroxy-Methylbutyrate (HMB) /-Methylglutarate
IgG
Indole-3-Carbinol
Ipriflavone
Ketoisocaproic Acid (KIC)
Lipoic Acid
Melatonin
Methylsulfonylmethane (MSM)
NADH/Other Nucleotide Bases
Ornithine Acid Alpha-Keto-Glutarate (OKG)
Orotic Acid
Pantethine
Phenylpropanoic Acids-Coumaric/Caffeic Acid/Ferulic Acid
Pyruvic Acid
SAMe
Theanine
Tocopherols/Tocotrienols
Troxerutin
Vinpocetine/Vincamine
Other Dietary Ingredients

VITAMINS

Vitamin A - β -Carotene/Retinol (Acetate, Palmitate)
Vitamin B1, B2, B3, B6
Vitamin B5 - Pantothenic Acid
Vitamin B12 - Cyanocobalamin/Methylcobalamin/
Hydroxycobalamin
Vitamin C - Ascorbic Acid
Vitamin C - as Ascorbyl-Palmitate, -Phosphate
Vitamin D - Cholecalciferol/Ergocalciferol
Vitamin E - α -Tocopherol/Acetate/Succinate
Vitamin E - Tocopherol Isomers
Vitamin H - Biotin
Vitamin K1 or K2 - Phylloquinone or Menaquinone
Vitamin K2, MK4, or MK7
Vitamin M - Folic Acid/Folinic Acid
Hexanicotinate/Inositol Hexanicotinate
Inositol/Pinitol/Choline
Pyridoxine 5-Phosphate/Riboflavin 5-Phosphate



AMINO ACIDS/PROTEINS/SUGARS/POLYSACCHARIDES

Amino Acid Derivatives (Taurine/-Alanine/Hydroxytryptophan)
Amino Acid, Individual
Amino Acid Profiles (or w/o Trp, Met, Cys)
Amylopectin
Colostrums/Collagen
Cyclodextrin/Dextrin
Erythritol
Furfural/Hydroxyfurfural/Hydroxymethylfurfural
Galacturonic Acid/Sugar Acids
Glucomannan/Aloemannan/Oligosaccharides/MOS
Glucuronolactone
Growth Hormones HGH/IGF
Hyaluronic Acid
Insulin/Inulin
Lactoferrin
Maltodextrin/Crystal Microcellulose
Oligosaccharides/Polysaccharides
Proteins - Kjeldahl, Lowery/Bradford
Saccharin/Sucratose
Sugar, Sugar Alcohols, Sugar Profiles (up to 8 sugars)

MINERALS/METALS

Group 1: Ca, Co, Fe, Mg, Mn, K, Na, S
Group 2: Al, Cr, Cu, Ba, Cd, Mo, Ni, Ag, Sn, Zn, P
Group 3: As, Pb, Se, Sc, Ti, Si, B, V, Cs, Li, Sb
Acid Digestion: Required for Groups 1-3, per sample
Chloride, Fluoride, Sulfate, Nitrogen, Phosphate
Heavy Metals as Lead
Iodine
Mercury
Minerals Scan by ICP-MS (up to 30 minerals and metals)
Nitrate and Nitride
Silica
Sulfur
Titanium Dioxide/Zinc Oxide
Vanadyl Sulfate

MICROBIOLOGY

Antimicrobial Effectiveness USP <51>
Clostridium
Coli Form / E.Coli (CFU/MPN)
Gram Negative or Positive
Lactobacillus/Bifidobacterium
Listeria/Confirmation
Microbe Package (TPC, Y&M, E. Coli, Coli, Staph, Sal)
Salmonella Screen/Confirmation
Standard Plate Count or Yeast and Molds
Staphylococcus/Pseudomonas
USP Methods <61>/<62> / Set Up Initial



OILS AND FATS/PHOSPHOLIPIDS

Acidity-Free/Acid Value
Alkoxyglycerols/Cetyl Myristoleate, Palmitoleate
Anisidine Value
CLA (Conjugated Linoleic Acids)
Caprylic Acid/GLA, Lauric Acid
Essential Oil Profile
Fats and Oils, Total
Fatty Acids - Composition, Profile
Fish Oil - EPA, DHA
 α -Glycerophosphoryl Choline (α -GPC)
Glycerin
Glycolipids
Hydroxyl Value
Lecithin - Acetone Insoluble
Oil - All Types for Fatty Acid Profile, % Relative Peroxide Value/Saponification Value
Phospholipids (PA, PC, PS, PI, PE)
Saw Palmetto - Fatty Acid
Squalene/Undecylenic Acid/Undecanoic Acid
Trans-Fatty Acids

PESTICIDES/TOXINS/ANTIBIOTICS/ADULTERANTS

Acrylamide
Allergens
Aristolochic Acids
Benzene (EPA 8020)
Benzo(a)pyrene/Total PAH
Bisphenol A/DEG, BPA deriv.
Chloramphenicol/Natamycin/Neomycin/Other Antibiotics
Chlorinated Pesticides/PCB Screen or Herbicides
Chlorohydrins/3-MCPD
Coumarin
Formaldehyde
Gluten
Malachite, Leucomalachites, Nitrofurans and Fluoroquinolones
Melamine Plus Derivatives
Methylimidazole (2-, 4-)
Mycotoxins - Aflatoxin/Ochratoxins/Citrinin
Organophosphate Pesticides
Patulin
Pesticides Screen (Selected Screen up to 40/USP List)
PCNB/Procymidone/Other Pesticides
Phthalates Groups/Individual
Pyrrolizidine Alkaloids
Sildenafil/Tadalafil/Vardenafil
Solvent Residue or Class I, II and III
TDA/MDA



PHYTOSTEROLS/STEROL-RELATED

Androstenedione/Diols - All Types
Cholesterol
Cortisone/Hydrocortisone
DHEA/Keto-DHEA
Ecdysterones
Octacosanol/Plicosanols
 γ -Oryzanol
Phytosterols (Campesterol, β -Sitosterol, Stigmasterol)
Pregnenolone/Progesterone
Somatotropin
Testosterone
Thyroxine

PRESERVATIVES

BHA, BHT, Ascorbyl Esters
Benzoic Acid/Citric Acid/Sorbic Acid
EDTA
Erythorbic Acid (Isoascorbic Acid)
Glycolic Acid
Parabens - Methyl and Propyl
Sulfur Dioxide/Total Sulfites

ENZYMES

α -Amylase - USP Unit/DU/DP
Bromelain/Papain/Glucosidase/Galactosidase/Pectinase
Lactase/Invertase
Lipase/Catalase/Cellulase/Alcalase/SOD Phosphatases
Nattokinase/Peroxidase/Lipoxygenase
Protease/Pepsin/Trypsin/Chymotrypsin Polyphenol Oxidase
Trypsin Inhibitors/ α -Amylase Inhibitors
Other Enzymes

NUTRITION LABELING

NLEA Abbreviated (Calories, Fat, Proteins and Carbohydrates)
NLEA Mandatory Packaging
NLEA Mandatory Plus (Plus All Vitamins, Inositol, Choline, Mg, K, P)



WET CHEMICAL AND PHYSICAL TESTING

Acidity/Alkalinity/Particle Size/Mesh Size
Ash or Sulfated Ash
Density (Bulk/Tap Density)
Disintegration/Dissolution
Extended Time Releasing
FT-IR
HPTLC/TLC
Karl Fisher for Water Content
Melting Point Refractive Index
Molecular Weight Determination
Organoleptic Testing/Viscosity
Specific/Optical Rotation

ROUTINE INSTRUMENTS

CVAA
GC
GC/MS
HPLC
HPTLC
ICP-MS
ICP-OES
IR
KF Titrator
LC/MS/MS
PCR
UV-Vis

PACKAGE TESTS

Heavy Metals
Microbial Screen
Nutrition Panel
Pesticides
Safety Tests on Cosmetic/Personal Care Products for KSA Export
Solvents

ADDITIONAL CAPABILITIES

Method Development and Validation
Stability Study

Information listed may be subject to change.



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