

Enzyme Assays	Unit Description	Test Code
* $\alpha$ -Galactosidase GalU	Hydrolysis of p-nitrophenyl- $\alpha$ -D-galactopyranoside (UV-VIS)	B0009
* $\alpha$ -Amylase DU	Hydrolysis of Lintner-soluble starch (Orbeco Hellige comparator)	B0011
$\alpha$ -Amylase BAU	Hydrolysis of Lintner-soluble starch (Orbeco Hellige comparator)	B0013
$\beta$ -Glucanase BGU	Hydrolysis of Lichenin (UV-VIS spectroscopy)	B0015
Bromelain (PU activity)	Hydrolysis of casein @ pH 6.0 (UV-VIS spectroscopy)	B0053
Catalase CatU	Hydrolysis of hydrogen peroxide (UV-VIS spectroscopy)	B0017
Cellulase CU	Hydrolysis of CMC (Cannon-Fenske viscometry)	B0019
Diastase DP	Hydrolysis of Lintner-soluble starch (Orbeco Hellige comparator)	B0021
* Glucoamylase AGU	Hydrolysis of p-nitrophenyl- $\alpha$ -D-glucopyranoside (UV-VIS)	B0023
Hemicellulase HCU	Hydrolysis of carob gum (Cannon-Fenske viscometry)	B0025
Invertase SU	Hydrolysis of Sucrose (UV-VIS)	B0027
Isolase IsoU	Hydrolysis of p-nitrophenyl- $\beta$ -D-glucopyranoside (UV-VIS)	B0029
* Lactase ALU	Hydrolysis of o-nitrophenyl- $\beta$ -D-galactopyranoside (UV-VIS)	B0031
Lipase FIP	Hydrolysis of olive oil ( $\Delta$ pH) (Federation Internationale Pharma)	B0033
Leucine Amino Peptidase LAP	Hydrolysis of leucine p-nitroanalide (UV-VIS spectroscopy)	B0435
Lysozyme MCG	Lysis of <i>Micrococcus lysodeikticus</i> (UV-VIS spectroscopy)	B0035
Nattokinase FU	Hydrolysis of bovine plasma fibrin (UV-VIS spectroscopy)	B0006
Pancreatic Amylase USP	Hydrolysis of soluble starch (TITRN)	B0037
Pancreatic Lipase USP	Hydrolysis of olive oil ( $\Delta$ pH)	B0039
Pancreatic Protease USP	Hydrolysis of casein (UV-VIS spectroscopy)	B0041
Papain (PU activity)	Hydrolysis of casein @ pH 6.0 (UV-VIS spectroscopy)	B0053
Pectinase PGU	Hydrolysis of citrus pectin (Cannon-Fenske viscometry)	B0045
Pepsin USP	Hydrolysis of egg albumin (sediment)	B0063
Peptidase DPPIV	Hydrolysis of Gly-Pro p-Nitroanilide (UV-VIS)	B0047
Phytase FTU	Hydrolysis of sodium phytate decahydrate (UV-VIS)	B0049
Protease AP	Hydrolysis of leucine p-nitroanalide HCL (UV-VIS spectroscopy)	B0051
* Protease HUT	Hydrolysis of hemoglobin (UV-VIS spectroscopy)	B0043
* Protease PU (FCC method)	Hydrolysis of casein @ pH 6.0 (UV-VIS spectroscopy)	B0053
* Protease PC	Hydrolysis of casein @ pH 7.0 (UV-VIS spectroscopy)	B0055
* Protease SAPU	Hydrolysis of casein @ pH 3.0 (UV-VIS spectroscopy)	B0057
Serratiopeptidase U	Hydrolysis of casein @ pH 9.0 (UV-VIS spectroscopy)	B0059
Xylanase XU	Hydrolysis of xylose @ pH 5.3 (UV-VIS spectroscopy)	B0288

\*This test is listed on SORA Labs ISO 17025:2005 scope accreditation.  
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# ENZYME ASSAYS

Specializing in enzyme assays, we are the foremost experts in testing for quality and potency in natural ingredient raw materials and finished products. The USP, British Pharmacopeia, Food Chemicals Codex and others make up our reference compendia.

Rush services, multi-sample and volume discounting are available; please let us quote your next project.



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HPLC Assays	Test Code
5-HTP	B0322
Anthrones and Emodins	B0241
Artemisin	B0296
Ascorbyl Palmitate-Vitamin A	B0179
Berberine	B0252
Beta Carotene	B0205
Betatene	B0442
Biotin-Vitamin B7	B0321
Caffeic Acid	B0249
Caffeine	B0211
Capsaicin	B0266
Chlorogenic Acid	B0144
Cinamaldehyde	B0350
CoQ10	B0216
Corosolic Acid	B0316
Coumarin	B0410
Curcuminoids	B0177
D-Mannose-Raw Material	B0269
D-Ribose-Raw Material	B0342
Diosmin	B0325
Ferulic Acid	B0251
Folic Acid-Vitamin B9	B0117
HCA-Hydroxycitric Acid	B0298
Hesperidin	B0250
Melamine	B0217
Melatonin	B0267
Methylcobalamin-Vitamin B12	B0376
Niacinamide-Vitamin B3	B0113
Pantothenic Acid-Vitamin B5	B0123
Piperine	B0299
Pterostibene	B0278
Pyridoxine-Vitamin B6	B0519

HPLC Assays	Test Code
Quercetin	B0246
Quinic Acid	B0444
Resveratrol	B0213
Retinol-Vitamin A	B0099
Riboflavin-Vitamin B2	B0111
Rutin	B0245
Silymarins	B0305
Thiamine-Vitamin B1	B0109
Trans-Cinnamic Acid	B0351
Vinpocetine	B0233
Vitamin C	B0101
Vitamin D	B0105
Vitamin E-Acetate	B0618
Vitamin E-Succinate	B0318
Vitamin E-Tocopherol	B0138
Vitamin K1	B0107

HPLC - MS/MS Assay	Test Code
Chloramphenicol Residue	B0474

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# HPLC ASSAYS

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# QUALITATIVE ANALYSIS

We also offer a variety of analytical techniques to meet your identification needs. Per 21 CFR §111.70 of the dietary supplement cGMP's, identity testing is of paramount importance.

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Identity Testing	Test Code
Sulfites ID	B0256
Tannase ID	B0468
Tartrate ID	B0469
TLC	B0153
UV/Vis ID	B0224
Wet Chemistry ID	B0242
Zinc ID	B0470

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Physical Testing	Test Code
* 20-part Weight Variation	B0171
* Bulk Density	B0159
Capsule Size/Intact Weight Avg.	B0170
* Loss on Drying	B0157
Melting Point	B0173
* Organoleptic (Color, Odor, Taste, Texture)	B0149
Particle Size	B0222
Residue on Ignition	B0172
Solubility	B0455
Tablet Friability	B0095
Tablet Hardness	B0096
* Tablet/Capsule Disintegration	B0087

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Enzyme Identity	Test Code
Amylase ID	B0238
Cellulase ID	B0239
α-Galactosidase ID	B0352
Glucoamylase	B0358
Glucose Oxidase ID	B0272
Invertase ID	B0356
Lactase ID	B0240
Lipase ID	B0235
Pectinase ID	B0359
Protease ID	B0234
Serratiopeptidase ID	B0281
Xylanase ID	B0357

FTIR-NIR	Test Code
Melamine Adulteration Screening	B0620

Identity Testing	Test Code
Amino Acid ID	B0258
Citrate ID	B0456
Dextrin ID	B0457
DMAE ID	B0270
FTIR	B0151
GC/MS ID	B0332
Gelatin ID	B0458
Gluconate	B0459
HPLC/UPLC ID	B0155
Iodine ID	B0460
Iron ID	B0259
Lactose ID	B0461
Magnesium ID	B0261
Maltodextrin ID	B0260
Microscopic ID	B0243
Nitrate ID	B0462
Oligosaccharide ID	B0463
PABA	B0443
Pectin ID	B0464
Phosphate ID	B0465
Potassium ID	B0257
Povidone ID	B0378
Reducing Sugars ID	B0236
Sodium ID	B0466
Sulfates ID	B0467

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Elemental Analysis (ICP)	Test Code
Digestion Fee of ICP Analysis (if applicable)	B0074
Arsenic	B0071
Boron	B0068
Cadmium	B0072
Calcium	B0075
Cesium	B0300
Chromium	B0069
Copper	B0082
Iodine	B0128
Iron	B0083
Lead	B0070
Magnesium	B0076
Manganese	B0077
Molybdenum	B0136
Mercury	B0073
Nickel	B0085
Phosphorous	B0084
Potassium	B0080
Rubidium	B0291
Selenium	B0079
Silicon	B0341
Sodium	B0081
Silver	B0326
Sulfur	B0344
Strontium	B0292
Vanadium	B0086
Zinc	B0078

Heavy Metal Analysis (ICP)	Test Code
HM Big-4-Lead, Arsenic, Cadmium, Mercury	B0062

Pesticide Residue Testing	Test Code
USP <561> Listed Pesticides	B0328

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Wet Chemistry Assays	Test Code
Acetone Insolubles	B0413
Acid Value	B0221
Ascorbyl Palmitate-Vitamin A (Titration)	B0445
Betaine Titration	B0446
Boswellic Acid	B0176
Dextrose Equivalency	B0447
Dicalcium Phosphate	B0453
Disodium Phosphate	B0426
DL-Methionine	B0448
DL-Phenylalanine	B0449
DMAE Bitartrate Titration	B0450
Ferric Iron Titration	B0327
Ferrous Fumarate	B0196
Ferrous Sulfate	B0208
Gymnemic Acid-Gravimetric	B0349
Heavy Metals as Lead	B0184
S-Methylmethionine	B0451
Swell Volume	B0452
Titration-Boswellic Acid Titration	B0176
Vitamin C	B0103

Many more USP and BP Wet Chemistry methods available.

UV/Vis Assays	Test Code
Beta Carotene	B0228
Cholic Acid	B0206
CoQ10	B0214
Cyanocobalamin-Vitamin B12	B0436
Cynarin	B0437
Lipoic Acid	B0438
Polyphenol, total	B0439
Quercetin	B0441
Rutin	B0386
Saponin (Diosgenin)	B0161
Silymarins	B0440

# QUANTITATIVE ANALYSIS

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PSSL Pulsed Photo Stimulated Luminescence	Test Code
USP <2250> Irradiation Screening	B0619

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# MICRO TESTING

AOAC Methods - Testing will be completed in 7-10 business days.	Test Code
AOAC-Micro Package (APC, Coliform, E. Coli, Y&M, Salmonella) †	B0061
* Aerobic Plate Count (APC) (AOAC-Petrifilm™)	B0164
* Coliform (AOAC-Petrifilm™)	B0166
* Escherichia Coli (AOAC-Petrifilm™)	B0165
* Yeast & Mold (AOAC-Petrifilm™)	B0097
Salmonella 1,2 Kit †	B0169
Staphylococcus Aureus (AOAC-Petrifilm™) †	B0094
Enterbacteriaceae (AOAC-Petrifilm™)	B0168
Probiotic Enumeration (AOAC-Petrifilm™)	B0093

FDA-BAM & USP-Agar Pour Plate Methods - Testing will be completed in 7-10 business days.	Test Code
Agar-Micro Package (APC, Coliform, E. Coli, Y&M, Salmonella) †	B0418
Aerobic Plate Count (APC) (USP or FDA-BAM Agar)	B0188
Coliform (USP or FDA-BAM Agar)	B0190
Escherichia Coli (USP or FDA-BAM Agar)	B0189
Yeast & Mold (USP or FDA-BAM Agar)	B0192
Salmonella 1,2 Kit †	B0169
Staphylococcus Aureus (USP or FDA-BAM Agar) †	B0191
Pseudomonas Aeruginosa (USP or FDA-BAM Agar) †	B0167
Enterbacteriaceae (USP-Agar)	B0314
Probiotic Enumeration-L. Sporogenes (B. Coagulans)	B0287

USP-BioLumix® Rapid Testing - Testing will be completed in 2-4 business days. This system is validated as equivalent to USP methods.	Test Code
BioLumix® Rapid Screen Package (APC, Coliform, E. Coli, Y&M, Salmonella) †	B0366
Aerobic Plate Count (APC) (USP-BioLumix®)	B0367
Coliform (USP-BioLumix®)	B0369
Escherichia Coli (USP-BioLumix®)	B0368
Yeast & Mold (USP-BioLumix®)	B0370
Salmonella (USP-BioLumix®) †	B0419
Staphylococcus Aureus (USP-BioLumix®) †	B0371
Enterbacteriaceae (USP-BioLumix®)	B0372
Pseudomonas Aeruginosa (USP-BioLumix®) †	B0373

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Petrifilm™ is a trademark of 3M Company.

NEW BioLumix® Rapid Micro System now available. Other methods include USP, FDA Bacteriological Analytical Manual (BAM), AOAC, etc.

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† Additional charges would apply for presumptive positives

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