



**SORA**  
LABORATORIES

LABORATORY SERVICES



## 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.

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
Chymotrypsin	Hydrolysis N-acetyl-L-tyrosine ethyl ester @ pH 7.0 (UV-Vis)	B0949
Diastase DP	Hydrolysis of Lintner-soluble starch (Orbeco Hellige comparator)	B0021
* Glucoamylase AGU	Hydrolysis of p-nitrophenyl- $\alpha$ -D-glucofuranoside (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-glucofuranoside (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-nitroanilide (UV-VIS spectroscopy)	B0435
Lysozyme MCG	Lysis of Micrococcus lysodeikticus (UV-VIS spectroscopy)	B0035
Nattokinase FU - Industry methods	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 (Endo-PG) PGU	Hydrolysis of citrus pectin (Cannon-Fenske viscometry)	B0045
Pepsin USP	Hydrolysis of hemoglobin (UV-VIS spectroscopy)	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-nitroanilide 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
SOD Superoxide Dismutase	Dojindo Kit or McCord Fridovich methods	B0175
Trypsin USP	Hydrolysis of N-benzoyl-L-arginine ethyl ester hydrochloride @pH 7.6 (UV-Vis)	B0381
Xylanase XU	Hydrolysis of xylose @ pH 5.3 (UV-VIS spectroscopy)	B0288

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

\*This test is listed on SORA Labs ISO/IEC 17025:2017 accreditation scope. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

© 2023 SORA Laboratories. All Rights Reserved.

ISO/IEC 17025:2017 Accredited  
ISO 9001:2015 Certified



## Micro Testing

Methods include USP, FDA Bacteriological Analytical Manual (BAM), AOAC, and other methods.

### 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 and Mold (AOAC-Petrifilm™)	B0097
Salmonella 1,2 Kit †	B0169
Staphylococcus Aureus (AOAC-Petrifilm™) †	B0094
Enterbacteriaceae (AOAC-Petrifilm™)	B0168

### 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 method)	B0188
Coliform (FDA-BAM Agar method)	B0190
Escherichia Coli (USP Agar method)	B0189
Yeast and Mold (USP or FDA-BAM Agar method)	B0192
Salmonella (USP agar method)	B1042
Staphylococcus Aureus (USP Agar method) †	B0191
Pseudomonas Aeruginosa (USP or FDA-BAM Agar method) †	B0167
Enterbacteriaceae (USP-Agar method)	B0314

### Probiotic Methods for CFU Total Viable Count Enumeration

### Test Code

Probiotic Bacillus Subtilis - BAC vendor method	B0870
Probiotic DE111	B1099
Probiotic L. reuteri (3M Petrifilm™)	B1148
* Probiotic L.acidophilus, L.salivarius, Bifidobacteria (I-Cys)	B0163
* Probiotic L.bulgaricus, L.plantarum, L.rhamosus, L.casei, L.brevis (no I-cys)	B0093
Probiotic Lactic Acid Bacteria - S. thermophilus	B0875
Probiotic S. salivarius FP Lozenges	B1162
Probiotic S. salivarius FP Powder	B1163
Probiotic S. salivarius K12/M18	B1161
Probiotic Sporogenes or Coag (w/sonic)	B0782

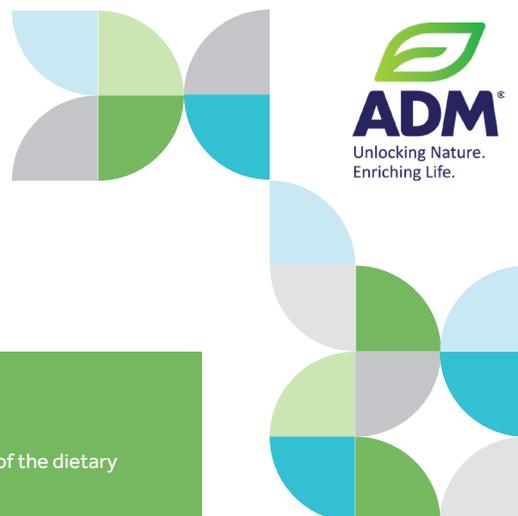
Petrifilm™ is a trademark of 3M Company.

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

\*This test is listed on SORA Labs ISO/IEC 17025:2017 accreditation scope. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

† Additional charges would apply for presumptive positives. © 2023 SORA Laboratories. All Rights Reserved.

ISO/IEC 17025:2017 Accredited  
ISO 9001:2015 Certified



## 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.

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 ID	B0459
HPLC 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
Pectin ID	B0464
Phosphate ID	B0465
Potassium ID	B0257
Povidone ID	B0378
Reducing Sugars ID	B0236
Sodium ID	B0466
Sulfates ID	B0467
Sulfites ID	B0256
Tannase ID	B0468
Tartrate ID	B0469
TLC ID	B0153
UV/Vis ID	B0224
Wet Chemistry ID	B0242
Zinc ID	B0470

Enzyme Identity	Test Code
Amylase ID	B0238
Catalase ID	B0507
Cellulase ID	B0239
α-Galactosidase ID	B0352
Glucoamylase ID	B0358
Invertase ID	B0356
Lactase ID	B0240
Lipase ID	B0235
Pectinase ID	B0359
Protease ID	B0234
Xylanase ID	B0357

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
pH	B0273
Residue on Ignition	B0172
Solubility	B0455
Specific Gravity	B0274
Tablet Friability	B0095
Tablet Hardness	B0096
* Tablet/Capsule Disintegration	B0087
Total Ash (FCC Method)	B0187



## Quantitative Analysis

SORA Labs is proud to offer many quantitative analyses for vitamins and minerals, as well as an array of isolates. Contact us for any analyses not listed.

Elemental Analysis (ICP-OES)	Test Code
Arsenic	B0071
Boron	B0068
Cadmium	B0072
Calcium	B0075
Chromium	B0069
Copper	B0082
Iron	B0083
Lead	B0070
Magnesium	B0076
Manganese	B0077
Molybdenum	B0136
Mercury	B0073
Nickel	B0085
Phosphorous	B0084
Potassium	B0080
Sodium	B0081
Silver	B0326
Sulfur	B0344
Vanadium	B0086
Zinc	B0078

Water or Moisture Testing	Test Code
LOD - Loss on Drying USP	B0157
Water Activity (aW)	B0858

Allergen Testing	Test Code
Gluten ELISA	B0397
Peanut ELISA	B0611

Aflatoxins	Test Code
Aflatoxin ELISA	B0185
Aflatoxin Test Strip	B0265

Wet Chemistry Assays	Test Code
Acetone Insolubles	B0413
Acid Value	B0221
Ascorbyl Palmitate-Vitamin A (Titration)	B0445
Betaine Titration	B0446
Boswellic Acid Titration	B0176
Cholic Acid (Bile Salts)	B0571
Dextrose Equivalency	B0447
Dicalcium Phosphate Titration	B0453
Disodium Phosphate Titration	B0426
DMAE Bitartrate Titration	B0450
Ferric Iron Titration	B0327
Ferrous Fumarate Assay	B0196
Ferrous Sulfate Assay	B0208
Gymnemic Acid-Gravimetric	B0349
Heavy Metals as Lead	B0184
Swell Volume	B0452
Vitamin C Titration	B0103

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

Pesticide Residue Testing USP <561>	Test Code
USP <561> Listed Pesticides GC-MS; HPIC	B0328

Residual Solvents USP <467>	Test Code
Class 1	B0626
Class 2	B0763
Class 3	B0764

HPLC - MS/MS Assay	Test Code
Chloramphenicol Residue- FDA LIB 4306 mod.	B0474

Heavy Metal Analysis (ICP-MS) USP <232>/USP <233>	Test Code
HM Big-4 Lead, Arsenic, Cadmium, Mercury	B0062