

This document was exported from Numbers. Each table was converted to an Excel worksheet. All other objects on each Numbers sheet were placed on separate worksheets. Please be aware that formula calculations may differ in Excel.

| Numbers Sheet Name | Numbers Table Name | Excel Worksheet Name |
|--------------------|--------------------|----------------------|
|--------------------|--------------------|----------------------|

| | | |
|--------------|---------|------------------------------|
| PARTTESTR1 | | |
| | Table 1 | PARTTESTR1 |
| LCMS methods | | |
| | Table 1 | LCMS methods |
| UPLC methods | | |
| | Table 1 | UPLC methods |

| Test Name | Test Type | TAT | Detection Limit | Min. Sample Amnt | Method Reference | Tags |
|--------------------------------|---------------------------|--------|-------------------|------------------|-------------------------------------|---------------------------|
| Aerobic Plate Count -- USP | Aerobic Plate Count | 5 Days | <10 cfu/g | 10 Grams | USP <2021>/GL-411, APC, TAPC | Purity |
| Aerobic Plate Count -- FDA BAM | Aerobic Plate Count | 5 Days | <10 cfu/g | 10 Grams | FDA BAM/GL-410, APC, TAPC | Purity |
| Aerobic Plate Count -- AOAC | Aerobic Plate Count | 5 Days | <10 cfu/g | 10 Grams | AOAC 990.12/GL-412, APC, TAPC | Purity |
| Aerobic Plate Count -- EP | Aerobic Plate Count | 5 Days | <10 cfu/g | 10 Grams | EP Purified Water/GL-391, APC, TAPC | Purity |
| Ash | Ash | 5 Days | TBD | 10 Grams | USP <281>/GL-588 | Identity |
| Bacillus cereus | Bacillus cereus | 5 Days | <10 cfu/g | 10 Grams | GL-483 | Purity |
| Bacillus coagulans | Bacillus coagulans | 5 Days | <10 cfu/g | 10 Grams | GL-471 | Purity |
| Bacillus subtilis | Bacillus subtilis | 5 Days | <10 cfu/g | 10 Grams | Customer Supplied Method | Purity |
| Bulk Density | Bulk Density | 5 Days | TBD | 10 Grams | USP <616>/GL-587 | Identity |
| Calories | Calories | 5 Days | TBD | 10 Grams | USDA Handbook No. 74, pp. 9-11 | Potency |
| Calories from Fat | Calories | 5 Days | TBD | 10 Grams | 21 CFR Part 101.9 (Calc.) | Potency |
| Calories from Saturated Fat | Calories | 5 Days | TBD | 10 Grams | 21 CFR Part 101.9 (Calc.) | Potency |
| Carbohydrates | Carbohydrates | 5 Days | TBD | 10 Grams | Calculation | Potency |
| Coliforms -- FDA BAM | Coliforms | 5 Days | <10 cfu/g | 10 Grams | FDA BAM/GL-422 | Purity |
| Coliforms -- AOAC | Coliforms | 5 Days | <10 cfu/g | 10 Grams | AOAC 991.14/GL-420 | Purity |
| Coliforms -- CMMEF | Coliforms | 5 Days | <10 cfu/g | 10 Grams | CMMEF/GL-391 | Purity |
| Density of Solids | Density | 5 Days | TBD | 10 Grams | USP <699> | Identity |
| Mercury (Hg) | DMA | 5 Days | TBD | 10 Grams | EPA 7473/GL-585 | Purity |
| E. coli -- FDA BAM | E. coli | 5 Days | <3 cfu/g | 10 Grams | FDA BAM/GL-421 | Purity |
| E. coli -- USP | E. coli | 5 Days | Positive/Negative | 10 Grams | USP <2022>/GL-423 | Purity |
| E. coli -- AOAC | E. coli | 5 Days | <10 cfu/g | 10 Grams | AOAC 991.14/GL-420 | Purity |
| Soy Allergen -- R-Biopharm | Elisa | 5 Days | TBD | 10 Grams | GL-590 (R-Biopharm R7102) | Potency, Identity, Purity |
| Soy Allergen -- Neogen Veratox | Elisa | 5 Days | TBD | 10 Grams | GL-591 (Neogen Veratox) | Potency, Identity, Purity |
| Gluten -- Gliadin | Elisa | 5 Days | TBD | 10 Grams | AOAC 2012.01/GL-581 | Potency, Identity, Purity |
| Gluten -- Competitive | Elisa | 5 Days | TBD | 10 Grams | AOAC 2015.05/GL-580 | Potency, Identity, Purity |
| Enterobacteriaceae -- USP | Enterobacteriaceae | 5 Days | <10 cfu/g | 10 Grams | USP <2021>/GL-431 | Purity |
| Enterobacteriaceae -- AOAC | Enterobacteriaceae | 5 Days | <10 cfu/g | 10 Grams | AOAC 2003.01/GL-430 | Purity |
| Fat | Fat | 5 Days | TBD | 10 Grams | GL-574 (Acid Hydrolysis) | Potency, Identity |
| Total Dietary Fiber | Fiber | 5 Days | TBD | 10 Grams | AOAC 991.43/GL-573 | Potency, Identity |
| Dietary Fiber | Fiber | 5 Days | TBD | 10 Grams | AOAC 991.43/GL-573 | Potency, Identity |
| FTIR Identification | FTIR | 5 Days | TBD | 10 Grams | USP <197>/GL-511 | Identity |
| General Anaerobic Count | General Anaerobic Count | 5 Days | <10 cfu/g | 10 Grams | Difco Manual/GL-414 | Purity |
| Gram Stain | Gram Stain | 5 Days | TBD | 10 Grams | GL-492 | Purity |
| Heterotrophic Plate Count | Heterotrophic Plate Count | 5 Days | <10 cfu/g | 10 Grams | EP Purified Water/GL-391 | Purity |
| Tungsten (W) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Zinc (Zn) (on dried basis) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Indium (In) | ICP-MS | 5 Days | 0.02ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Mercury (Hg) | ICP-MS | 5 Days | 0.01ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Vanadium (V) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Iron (Fe) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |

| | | | | | | |
|-------------------------------|---------------------------|--------|-------------|----------|--|---------------------------|
| Iron (Fe) on dried basis | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Zinc (Zn) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Aluminum (Al) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Lead (Pb) | ICP-MS | 5 Days | 0.02ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Antimony (Sb) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Lithium (Li) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Magnesium (Mg) | ICP-MS | 5 Days | 5 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Magnesium (Mg) on dried basis | ICP-MS | 5 Days | 5 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Arsenic (As) | ICP-MS | 5 Days | 0.03ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Manganese (Mn) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Manganese (Mn) on dried basis | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Barium (Ba) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Molybdenum (Mo) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Tin (Sn) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Nickel (Ni) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Boron (B) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Boron (B) on dried basis | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Cadmium (Cd) | ICP-MS | 5 Days | 0.02ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Chromium (Cr) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Calcium (Ca) | ICP-MS | 5 Days | 5 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Chromium (Cr) on dried basis | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Calcium (Ca) on dried basis | ICP-MS | 5 Days | 5 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Cobalt (Co) | ICP-MS | 5 Days | 0.1 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Phosphorus (P) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Copper (Cu) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Phosphorus (P) on dried basis | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Potassium (K) on dried basis | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Potassium (K) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Selenium (Se) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Sodium (Na) | ICP-MS | 5 Days | 5 ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Sodium (Na) on dried basis | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Strontium (Sr) | ICP-MS | 5 Days | 0.1ppm | 10 Grams | AOAC 993.14/GL-500 | Purity |
| Water Content | Karl Fischer | 5 Days | TBD | 10 Grams | USP <921>/GL-578 | |
| Lactobacillus acidophilus | Lactobacillus acidophilus | 5 Days | TBD | 10 Grams | GL-470 | Purity |
| Casein Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Catechin Dimer Gallate | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Pantothenic Acid (Vitamin B5) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-814, Water Soluble Vitamins, B-Vitamins | Potency |
| Catechin Trimer Gallate | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Aflatoxin B1 | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| EGCG Dimer-1 | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Aflatoxin B2 | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| Catechin Trimer | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |

| | | | | | | |
|--|----------|--------|-------------|----------|---|---------------------------|
| Aflatoxin G1 | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| Pyridoxine (Vitamin B6) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| EGCG Dimer-2 | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Aflatoxin G2 | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| Catechin Tetramer | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Aflatoxins | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| Catechin Dimer Digallate | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| ECG Dimer | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Riboflavin (Vitamin B2) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Catechin Dimer | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Catechin | LC-MS/MS | 7 Days | 1.00 ng/mL | 10 Grams | GL-816, Catechins, EGCG | Potency, Identity |
| Phylloquinone (Vitamin K1) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-806, Fat Soluble Vitamins, Vitamin K | Potency, Identity |
| Menaquinone-7 (Vitamin K2, MQ7) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-806, Fat Soluble Vitamins, Vitamin K2, MQ7 | Potency, Identity |
| Total Sugars | LC-MS/MS | 7 Days | 0.25 ug/mL | 10 Grams | GL-808, Sugars | Potency, Identity |
| Fructose | LC-MS/MS | 7 Days | 0.25 ug/mL | 10 Grams | GL-808, Sugars | Potency, Identity |
| Glucose | LC-MS/MS | 7 Days | 0.25 ug/mL | 10 Grams | GL-808, Sugars | Potency, Identity |
| Sucrose | LC-MS/MS | 7 Days | 0.25 ug/mL | 10 Grams | GL-808, Sugars | Potency, Identity |
| Lactose | LC-MS/MS | 7 Days | 0.25 ug/mL | 10 Grams | GL-808, Sugars | Potency, Identity |
| Cholecalciferol (Vitamin D3) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-806, Fat Soluble Vitamins, Vitamin D | Potency, Identity |
| Melamine | LC-MS/MS | 7 Days | 0.400 ng/mL | 10 Grams | GL-801, Melamine | Potency, Identity, Purity |
| Glyphosate | LC-MS/MS | 7 Days | 10.0 ng/mL | 10 Grams | GL-812, Pesticide | Potency, Identity, Purity |
| Methylcobalamin (Vitamin B12) | LC-MS/MS | 7 Days | 2.00 ng/mL | 10 Grams | GL-804, Vitamin B12 | Potency, Identity |
| Pyridoxine HCl (Vitamin B6) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Pea Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Rice Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Soy Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Ergocalciferol (Vitamin D2) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-806, Fat Soluble Vitamins, Vitamin D | Potency, Identity |
| Whey Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Ochratoxin A | LC-MS/MS | 7 Days | 0.200 ng/mL | 10 Grams | GL-800, Mycotoxins | Potency, Identity, Purity |
| Niacin (Vitamin B3) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Niacinamide (Vitamin B3) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Calcium Pantothenate (Vitamin B5) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-814, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Thiamine HCl (Vitamin B1) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Glutaurine | LC-MS/MS | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| Menaquinone-4 (Vitamin K2, MQ4) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-806, Fat Soluble Vitamins, Vitamin K, MQ4 | Potency, Identity |
| Methylcobalamin (on dried basis) (Vitamin B12) | LC-MS/MS | 7 Days | 2.00 ng/mL | 10 Grams | GL-804, Vitamin B12 | Potency, Identity |
| Glucomannan | LC-MS/MS | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| Glucose | LC-MS/MS | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| Cyanocobalamin (Vitamin B12) | LC-MS/MS | 7 Days | 2.00 ng/mL | 10 Grams | GL-804, Vitamin B12 | Potency, Identity |
| Mannose | LC-MS/MS | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| Mannose Glucose Ratio | LC-MS/MS | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| 5-Methyltetrahydrofolic Acid (Vitamin B9) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-813, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |

| | | | | | | |
|--|----------------------------|--------|-------------------|----------|---|-------------------|
| Ca-5-Methyltetrahydrofolate (Vitamin B9) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-813, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Folic Acid (Vitamin B9) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-813, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Thiamine (Vitamin B1) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Milk Protein | LC-MS/MS | 7 Days | 2000 ppm | 10 Grams | GL-803, Protein ID | Identity |
| Pyridoxal-5'-Phosphate (Vitamin B6) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-805, B-Vitamins, Water Soluble Vitamins | Potency, Identity |
| Biotin (Vitamin B7) | LC-MS/MS | 7 Days | 5.00 ng/mL | 10 Grams | GL-813, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Listeria -- FDA BAM | Listeria | 5 Days | Detect/Not Detect | 10 Grams | FDA BAM/GL-481 | Purity |
| Listeria -- Petrifilm | Listeria | 5 Days | < 10 cfu/g | 10 Grams | 3M Petrifilm/GL-482 | Purity |
| Listeria spp. -- Veriflow | Listeria spp. | 5 Days | Detect/Not Detect | 10 Grams | Veriflow (AOAC 121302)/GL-485 | Purity |
| Loss on Drying | Loss on Drying | 5 Days | TBD | 10 Grams | USP <731>/GL-516 | Potency |
| Loss on Drying -- Oven | Loss on Drying | 5 Days | TBD | 10 Grams | USP <731>/GL-517 | Potency |
| Loss on Ignition | Loss on Ignition | 5 Days | TBD | 10 Grams | Current USP-NF | Potency |
| Molds -- Rapid AOAC | Molds | 5 Days | < 10 cfu/g | 10 Grams | AOAC 2014.05/GL-451 | Purity |
| Molds -- AOAC | Molds | 5 Days | < 10 cfu/g | 10 Grams | AOAC 997.02/GL-450 | Purity |
| Molds -- FDA BAM | Molds | 5 Days | < 10 cfu/g | 10 Grams | FDA BAM/GL-453 | Purity |
| Molds -- CMMEF | Molds | 5 Days | < 10 cfu/g | 10 Grams | CMMEF/GL-391 | Purity |
| Molds -- USP | Molds | 5 Days | < 10 cfu/g | 10 Grams | USP <2021>/GL-452 | Purity |
| Nitrogen | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| True Protein | Nitrogen | 5 Days | TBD | 10 Grams | Calculation | Potency |
| Protein -- Kjeldahl | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (on dried basis) | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (NCF 5.46) | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (NCF 5.94) on dried basis | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (NCF 6.64) | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (NCF 7.54) | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein (NCF 6.64) on dried basis | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 2001.11/GL-542 | Potency |
| Protein -- Dumas | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 992.23/GL-543 | Potency |
| Protein (on dried basis) | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 992.23/GL-543 | Potency |
| Nitrogen | Nitrogen | 5 Days | TBD | 10 Grams | AOAC 992.23/GL-543 | Potency |
| True Protein (on dried basis) | Nitrogen | 5 Days | TBD | 10 Grams | Calculation | |
| Non-Target Organism | Non-Target Organism | 5 Days | TBD | 10 Grams | GL-359 | Purity |
| Organoleptic | Organoleptic | 5 Days | TBD | 10 Grams | Visual/Taste Profile (GBS R&D) | Identity |
| Physical Stability | Organoleptic | 5 Days | TBD | 10 Grams | GL-552 | Potency |
| 60 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 80 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 120 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 100 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 200 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 230 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 325 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 20 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| 40 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |

| | | | | | | |
|-------------------------------------|----------------------------|--------|-------------------|----------|-------------------------------|---------------------------|
| 140 Mesh Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| Mesh Pan Residue | Particle Size Distribution | 5 Days | TBD | 10 Grams | USP <786>/GL-566 | Potency |
| pH | pH | 5 Days | TBD | 10 Grams | USP <791>/GL-563 | |
| Pseudomonas aeruginosa | Pseudomonas aeruginosa | 5 Days | Positive/Negative | 10 Grams | USP <62>/GL-480 | Purity |
| Salmonella -- Veriflow | Salmonella | 5 Days | Positive/Negative | 10 Grams | Veriflow (AOAC 011404)/GL-462 | Purity |
| Salmonella -- USP | Salmonella | 5 Days | Positive/Negative | 10 Grams | USP <2022>/GL-461 | Purity |
| Salmonella -- FDA BAM | Salmonella | 5 Days | <10 cfu/g | 10 Grams | FDA BAM/GL-460 | Purity |
| Specific Gravity | Specific Gravity | 5 Days | TBD | 10 Grams | USP <841> | Potency |
| Staphylococcus aureus -- USP | Staphylococcus aureus | 5 Days | TBD | 10 Grams | USP <2022>/GL-441 | Purity |
| Staphylococcus aureus -- FDA BAM | Staphylococcus aureus | 5 Days | TBD | 10 Grams | FDA BAM/GL-440 | Purity |
| Tapped Density | Tapped Density | 5 Days | TBD | 10 Grams | USP <616>/GL-586 | Potency |
| Target Organism | Target Organism | 5 Days | Detect/Not Detect | 10 Grams | GL-359 | Purity |
| Lactic Acid | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Standard | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Dicalcium Phosphate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Dimagnesium Phosphate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Dipotassium Phosphate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Iron (Fe) | Titration | 5 Days | TBD | 10 Grams | Current FCC | Potency, Identity |
| Potassium Iodide | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Boric Acid | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Calcium Carbonate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Potassium Citrate (on dried basis) | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Tripotassium Citrate Monohydrate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Potassium Citrate | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Dextrose | Titration | 5 Days | TBD | 10 Grams | Current FCC | Potency, Identity |
| Dextrose (on dried basis) | Titration | 5 Days | TBD | 10 Grams | Current FCC | Potency, Identity |
| Dextrose Equivalent | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Sodium Chloride | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Fumaric Acid | Titration | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Heavy Metals (As, Cd, Pb, Hg) | Total Heavy Metals | 5 Days | TBD | 10 Grams | Calculation | Potency, Identity, Purity |
| Total Solids | Total Solids | 5 Days | TBD | 10 Grams | Current USP-NF | Potency, Identity |
| Glycine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Carnitine HCl | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Theacrine | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| Theanine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Glycine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Theobromine | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| Lysine Monohydrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Theobromine (on dried basis) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| Hydroxycitric Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Hydroxycitric Acid (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Acesulfame K | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-636, Ace K | Potency, Identity |

| | | | | | | |
|--|------|--------|--------------------|----------|--|-------------------|
| Theophylline | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| Curcuminoids (on dried basis) | UPLC | 7 Days | 8.00 ug/mL | 10 Grams | GL-637 | Potency, Identity |
| Thiamine (Vitamin B1) | UPLC | 7 Days | 0.500 ug/mL- see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Thiamine HCl (Vitamin B1) | UPLC | 7 Days | 0.500 ug/mL- see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Higenamine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Acetyl-L-Carnitine | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Higenamine HCl | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Thiamine Mononitrate (Vitamin B1) | UPLC | 7 Days | 0.500 ug/mL- see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Acetyl-L-Carnitine (on dried basis) | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Threonine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Higenamine HCl (on dried basis) | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Acetyl-L-Carnitine HCl | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Histidine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Acetyl-L-Carnitine HCl (on dried basis) | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Total Rosavins | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| Histidine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Histidine HCl Monohydrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Total Tocopherols (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| beta-Hydroxy beta-Methylbutyrate (Na-HB) | UPLC | 7 Days | 50.0 ug/mL | 10 Grams | GL-634, Sodium HB, Ca-HMB | Potency, Identity |
| Tryptophan | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Hordenine HCl | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Huperzine A | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Tyramine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Agmatine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Huperzine A (on dried basis) | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Tyrosine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Agmatine Nitrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Tyrosine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Hyperoside | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| Agmatine Sulfate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Valine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Agmatine Sulfate (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Gallocatechin (GC) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Ajmalicine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Valine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Epicatechin (EC) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Ajmaline | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Vinburnine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Gallocatechin Gallate (GCG) | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| alpha-Ketoglutaric Acid | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Vincamine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Epicatechin Gallate (ECG) | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |

| | | | | | | |
|--|------|--------|--------------------|----------|--|-------------------|
| alpha-Ketoglutaric Acid (on dried basis) | UPLC | 7 Days | 40.0 ug/mL | 10 Grams | GL-629 | Potency, Identity |
| Alanine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Vinpocetine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Isoleucine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| alpha-Tocopheryl Acetate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| alpha-Lipoic Acid | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Isoleucine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Methyliberine | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| alpha-Lipoic Acid (on dried basis) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-631 | Potency, Identity |
| alpha-Tocopheryl Succinate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Isoleucine Nitrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| alpha-Tocopherol (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Isoquercitrin | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| Yohimbine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| alpha-Yohimbine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Alfalfa | UPLC | 7 Days | Conform/Does Not | 10 Grams | GL-642 | Identity |
| L-5 Hydroxytryptophan | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Yohimbine Alkaloids | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Yohimbine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| alpha-Yohimbine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Total Ginsenosides | UPLC | 7 Days | 5.00 ug/mL | 10 Grams | GL-643 | Potency, Identity |
| alpha-Yohimbine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Carnitine Tartrate | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Leucic Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-628 | Potency, Identity |
| Leucic Acid (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-628 | Potency, Identity |
| Carnitine Tartrate (on dried basis) | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Leucic Acid (Ca salt) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-628 | Potency, Identity |
| L-Dopa | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| L-Dopa (on dried basis) | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Leucine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Amentoflavone | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Leucine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Leucine Nitrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| N-Acetyl-L-Methionine | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Rutaecarpine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| Arginine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Lysine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine alpha-Ketoglutaric Acid | UPLC | 7 Days | See GL-12 and GL-6 | 10 Grams | GL-635 | Potency, Identity |
| Arginine alpha-Ketoglutaric Acid | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| Lysine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine alpha-Ketoglutaric Acid (on dri | UPLC | 7 Days | See GL-12 and GL-6 | 10 Grams | GL-635 | Potency, Identity |

| | | | | | | |
|---|------|--------|---------------------|----------|---|-------------------|
| Arginine Ethyl Ester | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| DL-alpha-Tocopherol Acetate (on dried basis) (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Arginine Ethyl Ester HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine Nitrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine Nitrate (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Maleic Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Ca-5-Methyltetrahydrofolate (on dried basis) (Vitamin B9) | UPLC | 7 Days | 5.00 ug/mL - see LC | 10 Grams | GL-639, Water-Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Malic Acid (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Ascorbic Acid (on dried basis) (Vitamin C) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-607 | Potency, Identity |
| Ascorbic Acid (Vitamin C) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-607 | Potency, Identity |
| Nitrate | UPLC | 7 Days | 500 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Ascorbyl Palmitate (Vitamin C) | UPLC | 7 Days | 0.100 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| 4-Hydroxy-L-Isoleucine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| 5-Hydroxytryptophan | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Melatonin | UPLC | 7 Days | 40.0 ug/mL | 10 Grams | GL-621 | Potency, Identity |
| Aspartic Acid | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| 5-Hydroxytryptophan (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Aspartic Acid (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| 5-Methyltetrahydrofolic Acid (Vitamin B9) | UPLC | 7 Days | 5.00 ug/mL - see LC | 10 Grams | GL-639, Water-Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Chondroitin Sulfate | UPLC | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| BCAAs | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine HCl | UPLC | 7 Days | Raw Materials - see | 10 Grams | GL-635 | Potency, Identity |
| Calcium D-Glucarate | UPLC | 7 Days | 0.800 ug/mL | 10 Grams | GL-620 | Potency, Identity |
| Methionine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Calcium D-Glucarate tetrahydrate | UPLC | 7 Days | 0.800 ug/mL | 10 Grams | GL-620 | Potency, Identity |
| BCAAs | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| Methylcobalamin (Vitamin B12) | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-610, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Calcium beta-Hydroxy beta-Methylbutyrate (Ca-HMB) | UPLC | 7 Days | 50.0 ug/mL | 10 Grams | GL-634, Sodium HB, Ca-HMB | Potency, Identity |
| Lactic Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Beta Alanine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Methylcobalamin (on dried basis) (Vitamin B12) | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-610, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Total Vitamin B6 | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| Beta Alanine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Beta Alanine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Isoleucine | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| beta-Tocopherol (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Monosodium Glutamate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Leucine | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| beta-Hydroxybutyrate (HB) | UPLC | 7 Days | 50.0 ug/mL | 10 Grams | GL-634, Sodium HB, Ca-HMB | Potency, Identity |
| Capsaicinoids | UPLC | 7 Days | 5.00 ug/mL | 10 Grams | GL-641 | Potency, Identity |
| Betaine | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |

| | | | | | | |
|--|------|--------|----------------------|----------|--|-------------------|
| Valine | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| N-Acetyl-L-Glutamine | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-622 | Potency, Identity |
| Betaine (on dried basis) | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| N-Acetyl Carnitine | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| N-Acetyl-L-Cysteine | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-622 | Potency, Identity |
| Betaine HCl | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| N-Acetyl-L-Tyrosine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Biotin (Vitamin B7) | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| NAD | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Carnitine | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Carnitine (on dried basis) | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| NADH | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-623 | Potency, Identity |
| Sodium alpha-Lipoic Acid | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-631 | Potency, Identity |
| Catechin | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Catechins (Total) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Niacin (Vitamin B3) | UPLC | 7 Days | 0.500 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Niacinamide (Vitamin B3) | UPLC | 7 Days | 0.500 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Catechins (Total) on dried basis | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Taurine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Caffeine | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627 | Potency, Identity |
| Niacinamide (on dried basis) (Vitamin B3) | UPLC | 7 Days | 0.500 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Chlorogenic Acid | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-611 | Potency, Identity |
| Chlorogenic Acid (on dried basis) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-611 | Potency, Identity |
| Calcium Pantothenate (Vitamin B5) | UPLC | 7 Days | 10.0 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| NaMethyltyramine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Cholecalciferol (Vitamin D3) | UPLC | 7 Days | 0.100 ug/mL - see LC | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Calcium Pantothenate (on dried basis) (Vitamin B5) | UPLC | 7 Days | 10.0 ug/mL - see LC | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| NaMethyltyramine HCl | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Choline | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Norvaline | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Choline Bitartrate | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Choline Chloride | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Caffeine | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-603 | Potency, Identity |
| Oleuropein | UPLC | 7 Days | 7.00 ug/mL | 10 Grams | GL-638 | Potency, Identity |
| Caffeine (on dried basis) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-603 | Potency, Identity |
| Oleuropein (on dried basis) | UPLC | 7 Days | 7.00 ug/mL | 10 Grams | GL-638 | Potency, Identity |
| Ornithine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Ornithine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Citric Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Ornithine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Thiamine Mononitrate (on dried basis) (Vitamin B1) | UPLC | 7 Days | 0.500 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| N-Acetyl-L-Cysteine (on dried basis) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-622 | Potency, Identity |

| | | | | | | |
|--|------|--------|---------------------|----------|--|-------------------|
| para-Aminobenzoic Acid | UPLC | 7 Days | 0.500 ug/mL - see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Citrulline | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Citrulline (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Cystine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Pantothenic Acid (Vitamin B5) | UPLC | 7 Days | 10.0 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Citrulline Malate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Pantothenic Acid (on dried basis) (Vitamin B5) | UPLC | 7 Days | 10.0 ug/mL - see LC | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Yohimbine HCl Anhydrous | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| Citrulline Malate | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| Carnosic Acid | UPLC | 7 Days | TBD | 10 Grams | Nuskin R&D Method | Potency, Identity |
| Citrulline Nitrate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Phenylalanine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Phenylalanine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Glucosamine HCl | UPLC | 7 Days | Raw Material- See | 10 Grams | GL-650 | Potency, Identity |
| Picamilon | UPLC | 7 Days | TBD | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Coenzyme Q10 | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-618 | Potency, Identity |
| Corosolic Acid | UPLC | 7 Days | 17.0 ug/mL | 10 Grams | GL-619 | Potency, Identity |
| Corynanthine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-626, Yohimbine, Yohimbine Alkaloids | Potency, Identity |
| N-Acetyl-Glucosamine | UPLC | 7 Days | Raw Material- See | 10 Grams | GL-650 | Potency, Identity |
| Creatine | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Creatine (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| N-Acetyl-Glucosamine (on dried basis) | UPLC | 7 Days | Raw Material- See | 10 Grams | GL-650 | Potency, Identity |
| Creatine Ethyl Ester | UPLC | 7 Days | 200 ug/mL | 10 Grams | GL-606 | Potency, Identity |
| Creatine Ethyl Ester HCl | UPLC | 7 Days | 200 ug/mL | 10 Grams | GL-606 | Potency, Identity |
| Proline | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Creatine HCl | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| N-Acetyl-L-Tyrosine (on dried basis) | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Creatine HCl (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Creatine Monohydrate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Creatine Nitrate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Creatine Nitrate (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Creatine Pyruvate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Creatine Pyruvate (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Creatinine | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Creatinol-O-Phosphate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Pterostilbene | UPLC | 7 Days | 6.00 ug/mL | 10 Grams | GL-616 | Potency, Identity |
| Pyridoxal-5'-Phosphate (Vitamin B6) | UPLC | 7 Days | 0.800 ug/mL - see L | 10 Grams | GL-617, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Curcumin | UPLC | 7 Days | 8.00 ug/mL | 10 Grams | GL-637 | Potency, Identity |
| Pyridoxal-5'-Phosphate (on dried basis) (Vitamin B6) | UPLC | 7 Days | 0.800 ug/mL - see L | 10 Grams | GL-617, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Curcuminoids | UPLC | 7 Days | 8.00 ug/mL | 10 Grams | GL-637 | Potency, Identity |
| Pyridoxal-5'-Phosphate monohydrate (Vitamin B6) | UPLC | 7 Days | 0.800 ug/mL - see L | 10 Grams | GL-617, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Pyridoxine (Vitamin B6) | UPLC | 7 Days | 0.500 ug/mL - see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |

| | | | | | | |
|---|------|--------|---------------------|----------|---|-------------------|
| Cyanocobalamin (Vitamin B12) | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-610, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Cyanocobalamin (on dried basis) (Vitamin B12) | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-610, Water-Soluble Vitamins, B-Vitamins | Potency, Identity |
| Ca-5-Methyltetrahydrofolate (Vitamin B9) | UPLC | 7 Days | 5.00 ug/mL - see L | 10 Grams | GL-639, Water-Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Pyridoxine HCl (Vitamin B6) | UPLC | 7 Days | 0.500 ug/mL - see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Cystine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Pyridoxine HCl (on dried basis) (Vitamin B6) | UPLC | 7 Days | 0.500 ug/mL - see L | 10 Grams | GL-602, Water Soluble Vitamins, B-Vitamins | Potency, Identity |
| Quercetin | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| D-alpha-Tocopherol (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Quercetin (on dried basis) | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| D-alpha-Tocopherol Acetate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| D-alpha-Tocopherol Succinate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Citrulline | UPLC | 7 Days | Raw Materials Only | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Quercitrin | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| Raspberry Ketone | UPLC | 7 Days | 40.0 ug/mL | 10 Grams | GL-630 | Potency, Identity |
| Ornithine HCl | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| delta-Tocopherol (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Ca BHB (on dried basis) | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| R-beta-Methylphenylethylamine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Ornithine alpha-Ketoglutaric Acid | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Na BHB (on dried basis) | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Mg BHB Trihydrate | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Gluconate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Resveratrol | UPLC | 7 Days | 8.00 ug/mL | 10 Grams | GL-616 | Potency, Identity |
| Beta Carotene | UPLC | 7 Days | TBD | 10 Grams | R&D | Potency, Identity |
| Retinol (Vitamin A) | UPLC | 7 Days | 0.100 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Dicreatine Malate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Retinol Acetate (Vitamin A) | UPLC | 7 Days | 0.100 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Dicyandiamide | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-604 | Potency, Identity |
| Retinol Palmitate (Vitamin A) | UPLC | 7 Days | 0.100 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Total Rhodiola Glycosides | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| N-Methyltyramine HCl | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Histidine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Riboflavin (Vitamin B2) | UPLC | 7 Days | 0.250 ug/mL - see L | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Disodium Creatine Phosphate | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Riboflavin (on dried basis) (Vitamin B2) | UPLC | 7 Days | 0.250 ug/mL - see L | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| DL-alpha-Tocopherol Acetate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Rosarin | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| DL-alpha-Tocopherol Succinate (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Rosavin | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| DMAE | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Mg BHB (anhydrous basis) | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| DMAE Bitartrate | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |

| | | | | | | |
|--|------------------------|--------|---------------------|----------|---|-------------------|
| Quercetin Dihydrate | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| Rosin | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| Rutin | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-615, Flavanoids | Potency, Identity |
| DMAE Bitartrate (on dried basis) | UPLC | 7 Days | 1.00 ug/mL | 10 Grams | GL-645, Transporters | Potency, Identity |
| Salidroside | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-640 | Potency, Identity |
| Malic Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| EGCG | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Serine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Ergocalciferol (Vitamin D2) | UPLC | 7 Days | 0.100 ug/mL - see L | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| Glucosamine Sulfate Potassium (on dried | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Evodiamine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Glucosamine Sulfate Potassium (on dried | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Folic Acid (Vitamin B9) | UPLC | 7 Days | 0.100 ug/mL - See | 10 Grams | GL-601, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Sodium beta-Hydroxybutyrate | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Glucosamine Sulfate Potassium Chloride | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Forskolin | UPLC | 7 Days | 40.0 ug/mL | 10 Grams | GL-633 | Potency, Identity |
| gamma-Aminobutyric Acid | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| gamma-Tocopherol (Vitamin E) | UPLC | 7 Days | 20.0 ug/mL | 10 Grams | GL-605, Fat-Soluble Vitamins | Potency, Identity |
| DMAE Bitartrate | UPLC | 7 Days | TBD | 10 Grams | Calculation | Potency, Identity |
| Glucaric Acid | UPLC | 7 Days | 0.800 ug/mL | 10 Grams | GL-620 | Potency, Identity |
| Glucosamine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Glucosamine HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Glucosamine Sulfate | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Glucosamine Sulfate 2KCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Synephrine | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Folic Acid (on dried basis) (Vitamin B9) | UPLC | 7 Days | 0.100 ug/mL - See | 10 Grams | GL-601, Water Soluble Vitamins, B-Vitamins, Folates | Potency, Identity |
| Arginine | UPLC | 7 Days | TBD | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Glutamic Acid | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Synephrine HCl | UPLC | 7 Days | 10.0 ug/mL | 10 Grams | GL-613, Alkaloids | Potency, Identity |
| Glutamic Acid HCl | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| alpha-Ketoglutaric Acid | UPLC | 7 Days | Raw Materials - see | 10 Grams | GL-635 | Potency, Identity |
| Tartaric Acid | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Glutamine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Arginine (on dried basis) | UPLC | 7 Days | Raw Materials - see | 10 Grams | GL-635 | Potency, Identity |
| alpha-Ketoglutaric Acid (on dried basis) | UPLC | 7 Days | Raw Materials - see | 10 Grams | GL-635 | Potency, Identity |
| Glutamine (on dried basis) | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| Tartaric Acid (on dried basis) | UPLC | 7 Days | 100 ug/mL | 10 Grams | GL-608, Organic Acids | Potency, Identity |
| Taurine | UPLC | 7 Days | 2.00 ug/mL | 10 Grams | GL-612, Amino Acids | Potency, Identity |
| EGCG (on dried basis) | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-627, EGCG, Catechins | Potency, Identity |
| Theacrine | UPLC | 7 Days | 4.00 ug/mL | 10 Grams | GL-603 | Potency, Identity |
| Viable Probiotic Count | Viable Probiotic Count | 5 Days | < 10 cfu/g | 10 Grams | GL-470 | Purity |
| Viscosity | Viscosity | 5 Days | TBD | 10 Grams | Brookfield DV/GL-594 | Potency |

| | | | | | | |
|---------------------|----------------|--------|-----|----------|----------------------|----------|
| Viscosity | Viscosity | 5 Days | TBD | 10 Grams | Vendor Method ED 257 | Potency |
| Water Activity | Water Activity | 5 Days | TBD | 10 Grams | AquaLab/GL-518 | Identity |
| Guar Gum | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Acacia | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Acetate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Titanium Dioxide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Hypophosphite | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Iodide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Iron (Fe) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Iron Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Lactate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Zinc (Zn) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Zinc Gluconate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Zinc Oxide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Aluminum (Al) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Ammonium | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Antimony (Sb) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Lithium (Li) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Magnesium (Mg) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Magnesium Oxide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Magnesium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Pantethine | Wet ID | 5 Days | TBD | 10 Grams | JP Monograph | Identity |
| Maltodextrin | Wet ID | 5 Days | TBD | 10 Grams | Current FCC | Identity |
| Manganese (Mn) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium Carbonate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium Citrate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Barium (Ba) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Potassium Chloride | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Benzoate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium Lactate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Carrageenan | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Carbonate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Bicarbonate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Pullulan | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Bismuth | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Bisulfite | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Bitartrate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Borate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Cellulose Gum | Wet ID | 5 Days | TBD | 10 Grams | FCC Monograph | Identity |
| Chlorate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Chloride | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |

| | | | | | | |
|-----------------------|--------|--------|-----|----------|----------------|----------|
| Bromide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Nitrite | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Chromic Chloride | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium (Ca) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Chromium Picolinate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Calcium Ascorbate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Oxalate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Citrate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Permanganate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Peroxide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Cobalt (Co) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Standard | Wet ID | 5 Days | TBD | 10 Grams | Current FCC | Identity |
| Standard | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Milk Thistle | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Copper (Cu) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Copper Gluconate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Potassium (K) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Corn Starch | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Potassium Bicarbonate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Potassium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Potassium Sorbate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Dicalcium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Dipotassium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Disodium Phosphate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Silicon | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Silicon Dioxide | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Silicon Dioxide | Wet ID | 5 Days | TBD | 10 Grams | Current FCC | Identity |
| Ferric Salts | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Silver | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Ferrous Fumarate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Ferrous Salts | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sodium (Na) | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sodium Bicarbonate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sodium Chloride | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sodium Citrate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Gelatin | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Xanthan Gum | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sulfate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Sulfite | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Thiamine Mononitrate | Wet ID | 5 Days | TBD | 10 Grams | Current USP-NF | Identity |
| Glyceryl Monostearate | Wet ID | 5 Days | TBD | 10 Grams | Current FCC | Identity |

| | | | | | | |
|--------------------------------|------------------|--------|------------|----------|---------------------|-------------------|
| Yeasts -- Rapid AOAC | Yeasts | 5 Days | < 10 cfu/g | 10 Grams | AOAC 2014.05/GL-451 | Purity |
| Yeasts -- AOAC | Yeasts | 5 Days | < 10 cfu/g | 10 Grams | AOAC 997.02/GL-450 | Purity |
| Yeasts. -- FDA BAM | Yeasts | 5 Days | < 10 cfu/g | 10 Grams | FDA BAM/GL-453 | Purity |
| Yeasts -- CMMEF | Yeasts | 5 Days | < 10 cfu/g | 10 Grams | CMMEF/GL-391 | Purity |
| Yeasts -- USP | Yeasts | 5 Days | < 10 cfu/g | 10 Grams | USP <2021>/GL-452 | Purity |
| Yeasts and Molds -- Rapid AOAC | Yeasts and Molds | 5 Days | < 10 cfu/g | 10 Grams | AOAC 2014.05/GL-451 | Purity |
| Yeasts and Molds -- AOAC | Yeasts and Molds | 5 Days | < 10 cfu/g | 10 Grams | AOAC 997.02/GL-450 | Purity |
| Yeasts and Molds -- FDA BAM | Yeasts and Molds | 5 Days | < 10 cfu/g | 10 Grams | FDA BAM/GL-453 | Purity |
| Yeasts and Molds - USP | Yeasts and Molds | 5 Days | < 10 cfu/g | 10 Grams | USP <2021>/GL-452 | Purity |
| Yeasts and Molds -- CMMEF | Yeasts and Molds | 5 Days | < 10 cfu/g | 10 Grams | CMMEF/GL-391 | Purity |
| Theophylline | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-603 | Potency, Identity |
| Theobromine | UPLC | 7 Days | 80.0 ug/mL | 10 Grams | GL-603 | Potency, Identity |

| GL_8XX | | range | | |
|--------|--------------------------------|------------------|--|--|
| 800 | Mycotoxins | 0.2-5 ng/mL | | |
| 801 | Melamine | 0.400-40.0 ng/mL | | |
| 803 | Protein ID | 2000 ppm | | |
| 804 | B12 | 2.00-200 ng/mL | | |
| 805 | WSV | 5.00-500 ng/mL | | |
| 806 | FSV | 5.00-500 ng/mL | | |
| 807 | Yohimbine | 6.00-240 ng/mL | | |
| 808 | Sugars | 0.25 ug/mL | | |
| 812 | Glyphosate | 10.0-2000 ng/mL | | |
| 813 | Folates (Biotin, Folate, mTHF) | 5.00-500 ng/mL | | |
| 814 | Pantothenic Acid | 5.00-500 ng/mL | | |
| 815 | Sugars (Long Method) | 0.25 ug/mL | | |
| 816 | Catechin Oligomers | 1.00-100 ng/mL | | |
| 817 | | | | |
| 818 | Glucose + Manose | 0.200-4 ug/mL | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| GL | LCMS CAPABLE | range | | |
|-----|---|----------------------|--|--|
| 601 | Folic Acid (Vitamin B9) | 0.1 ug/mL | | |
| 602 | Water Soluble Vitamins (B-Vitamins) | 0.5 ug/mL (see LCMS) | | |
| | Niacin (Vitamin B3) | 0.500 ug/mL | | |
| | Niacinamide (Vitamin B3) | 0.500 ug/mL | | |
| | PABA - 4-aminobenzoic acid | 0.500 ug/mL | | |
| | Pantothenic Acid (Vitamin B5) | 10 ug/mL | | |
| | Pyridoxine (Vitamin B6) | 0.500 ug/mL | | |
| | Thiamine (Vitamin B1) | 0.500 ug/mL | | |
| | Riboflavin (Vitamin B2) | 0.25 ug/mL | | |
| 603 | Caffeine | 80 ug/mL | | |
| | Theophylline | 80 ug/mL | | |
| | Theobromine | 80 ug/mL | | |
| | Theacrine | 4 ug/mL | | |
| 604 | Creatine | 100 ug/mL | | |
| | Nitrate | 500 ug/mL | | |
| | Creatinol-O-Phosphate | 100 ug/mL | | |
| | Dicayandiamide | 100 ug/mL | | |
| | Creatinine | 100 ug/mL | | |
| 605 | Fat Soluble Vitamins | | | |
| | Ascorbyl Palmitate (Vitamin C) | 0.100 ug/mL | | |
| | Retinol (Vitamin A) | 0.100 ug/mL | | |
| | Retinyl Acetate (Vitamin A) | 0.100 ug/mL | | |
| | Delta, Beta, Gamma- Tocotrienol (Vitamin E) | 20.0 ug/mL | | |
| | Ergocalciferol (Vitamin D2) | 0.100 ug/mL | | |
| | Cholecalciferol (Vitamin D3) | 0.100 ug/mL | | |
| | alpha-tocotrienol (Vitamin E) | 20.0 ug/mL | | |
| | delta-tocopherol (Vitamin E) | 20.0 ug/mL | | |
| | Tocopheryl Succinate (Vitamin E) | 20.0 ug/mL | | |
| | alpha, beta, gamma -tocopherol (Vitamin E) | 20.0 ug/mL | | |
| | alpha- tocopheryl acetate (Vitamin E) | 20.0 ug/mL | | |
| | retinyl palmitate (Vitamin A) | 0.100 ug/mL | | |
| 606 | Creatine Ethyl Ester | 200 ug/mL | | |
| 607 | Ascorbic acid (Vitamin C) | 2.00 ug/mL | | |

| | | | | |
|-----|-------------------------------------|--------------|--|--|
| 608 | Organic acids | | | |
| | Citrulline (raw materials) | raw material | | |
| | Potassium Gluconate (Gluconic Acid) | 100 ug/mL | | |
| | Malic Acid | 100 ug/mL | | |
| | Tartaric cid | 100 ug/mL | | |
| | Citric Acid | 100 ug/mL | | |
| | Hydroxycitric Acid | 100 ug/mL | | |
| | N-Acetyl-L-Methionine | 15.0 ug/mL | | |
| 609 | Biotin (raw material)- Vitamin B7 | raw material | | |
| 610 | B12 | raw material | | |
| 611 | chlorogenic acid | 20.0 ug/mL | | |
| 612 | aminos | 20.0 ug/mL | | |
| 613 | alkaloids | 10.0 ug/mL | | |
| | Levodopa (L-Dopa) | | | |
| | Synephrine | | | |
| | Tyrosine | | | |
| | N-Acetyl-L-Tyrosine | | | |
| | Tyramine | | | |
| | N-Methyltyramine | | | |
| | Hordenine | | | |
| | Higenamine | | | |
| | Huperzine A | | | |
| | R-Beta-Methylphenethylamine | | | |
| | Vincamine | | | |
| | Vinburnine | | | |
| | Aegeline | | | |
| | Vinpocetine | | | |
| | Evodiamine | | | |
| 615 | Flavanoids/Rutaecarpine | 10.0 ug/mL | | |
| | Eocitrin | | | |
| | Rutin | | | |
| | Hyperoside | | | |
| | Isoquercitrin | | | |
| | Narirutin | | | |
| | Quercitrin | | | |

| | | | | |
|-----|---|-------------|--|--|
| | Naringin | | | |
| | Hesperidin | | | |
| | Neohesperedin | | | |
| | Quercetin | | | |
| | Naringenin | | | |
| | Hesperetin | | | |
| | Amentoflavone | | | |
| | Rutaecarpine | | | |
| 616 | caffeine, resveratrol, pterostilbene | | | |
| | Pterostilbene | 6.00 ug/mL | | |
| | Resveratrol | 8.00 ug/mL | | |
| 617 | Pyridoxal-5-Phosphate (P5P), Vitamin B6 | 0.800 ug/mL | | |
| 618 | CoQ10 | | | |
| 619 | Corosolic Acid | 17.0 ug/mL | | |
| 620 | Glucarate (Glucaric Acid) | 0.800 mg/mL | | |
| | Potassium Saccharate | | | |
| | Calcium Glucarate | | | |
| | Calcium Glucarate Tetrahydrate | | | |
| | Glucaric Acid | | | |
| 621 | Melatonin | 40.0 ug/mL | | |
| 622 | N-Acetyl-Amino Acids | 500 ug/mL | | |
| | N-Acetyl-L-Glutamine | | | |
| | N-Acetyl-L-Cysteine | | | |
| 623 | NADH | 80.0 ug/mL | | |
| 625 | Yohimbine | 2.00 ug/mL | | |
| | Rauwolscine (Alpha-Yohimbine) | | | |
| | Corynanthine | | | |
| | Ajmalicine | | | |
| | Yohimbine Alkaloids | | | |
| 627 | Caffeine, EGCG, catechins | | | |
| | Caffeine | 80.0 ug/mL | | |
| | Catechins | 80.0 ug/mL | | |
| | EGCG (Epigallocatechin Gallate) | 80.0 ug/mL | | |
| | Theophylline | 80.0 ug/mL | | |
| | Theobromine | 80.0 ug/mL | | |

| | | | | |
|-----|---|------------|--|--|
| | Methyliberine | 4.00 ug/mL | | |
| | Theacrine | 4.00 ug/mL | | |
| 628 | Leucic acid | 100 ug/mL | | |
| 629 | Alpha-Ketoglutaric Acid (AKG)- Finished Goods + raw Materials | 40.0 ug/mL | | |
| 630 | Raspberry Ketone (Finished Goods and Raw Materials) | 40.0 ug/mL | | |
| | 4-(4-hydroxyphenyl)-2-butanone | | | |
| | | | | |
| 631 | Alpha Lipoic Acid- finished goods and raw materials | 80.0 ug/mL | | |
| 633 | Forskolin | 40.0 ug/mL | | |
| 634 | HM and HMB | | | |
| | Sodium beta-Hydroxybutyrate (Sodium HB), Na-HB | 50.0 ug/mL | | |
| | Calcium beta-Hydroxy-beta-Methylbutyrate (Calcium HMB), Ca-HMB | | | |
| 635 | Arginine AKG- raw materials - Arginine, Alpha-Ketoglutaric Acid | | | |
| 636 | Ace K- Acesulfame K | 10.0 ug/mL | | |
| 637 | Curcuminoids | 8.00 ug/mL | | |
| | Bisdemthoxycurcumin | | | |
| | Demethoxycurcumin | | | |
| | Curcumin | | | |
| 638 | Oleuropein | 7.00 ug/mL | | |
| 639 | 5-mTHF (all names)- Vitamin B9 | 5.00 ug/mL | | |
| 640 | Salidroside and Rosavins | 4.00 ug/mL | | |
| | Salidroside | | | |
| | Rosarin | | | |
| | Rosavin | | | |
| | Rosin | | | |
| 641 | Capsaicinoids | 5.00 ug/mL | | |
| | Nordihydrocapsaicin | | | |
| | Capsaicin | | | |
| | Dihydrocapsaicin | | | |
| | Piperine | | | |
| 642 | Alfalfa | ID | | |
| 643 | Ginsenosides | 5.00 ug/mL | | |
| | Notoginsenoside R1 | | | |
| | Ginsenoside Rg1 | | | |
| | Ginsenoside Re | | | |

| | | | | |
|-----|-----------------------------|------------|--|--|
| | Ginsenoside Rf | | | |
| | Ginsenoside Rg2 | | | |
| | Ginsenoside Rb1 | | | |
| | Ginsenoside Rc | | | |
| | Ginsenoside Rb2 | | | |
| | Ginsenoside Rd | | | |
| 645 | Transporters | 1.00 ug/mL | | |
| | Betaine | | | |
| | Choline | | | |
| | Carnitine | | | |
| | Dimethylaminoethanol | | | |
| | Dimethylethanolamine (DMAE) | | | |
| | Acetyl Carnitine | | | |
| | Acetyl Choline | | | |
| 650 | Glucosamine (raw materials) | | | |