



Combo and Test Panels – See individual tests for specimen requirements and turn-around times

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES					
TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
Advanced Cholesterol Profile	2 Serum Separator vials (gold top)	Serum	3 mL	4 mL	2-4 weeks
Test Analytes: Total cholesterol, Apolipoprotein A-1 (Apo A-1), Apolipoprotein B (Apo B), Lipoprotein (a) (Lp (a)), Homocysteine					
Amino Acid Plasma Test (43) (USA only)	Fill 7mL Whole blood in 1 lavender-topped EDTA vial (overnight fast). Specimen must be received within 48 hours of collection. Sample must be frozen and shipped with frozen gel pack.	Plasma	1 mL	2 mL	2-4 weeks
Amino Acid Urine Test (43)	50 mL Urine Collection Cup, Red-top specimen vial to the fill line	First Morning (or 24hr) Urine	20 mL, red vial to fill line	25 mL, red vial to fill line	
Test Analytes: Alanine, Beta-Alanine, Alpha-Aminoadipic, Alpha-Aminobutyric, Gamma-Aminobutyric, Beta-Aminoisobutyric, Ammonia, Anserine, Arginine, Asparagine, Aspartic, Carnosine, Citrulline, Cystathionine, Cysteine, Cystine, Ethanolamine, Glycine, Glutamic, Glutamine, Histidine, Homocysteine, Hydroxyproline, Isoleucine, Leucine, Lysine, Met Sulfoxide, Methionine, 1-Methylhistidine, 3-Methylhistidine, Ornithine, Phenylalanine, Phosphoethanolamine, Phosphoserine, Proline, Sarcosine, Serine, Taurine, Threonine, Tryptophan, Tyrosine, Valine, Urine Only – Creatinine and Urea					
Calcium + Magnesium Test	50 mL Urine Collection Cup	First Morning Urine	10 mL	20 mL	1-2 weeks
Test Analytes: Calcium, Magnesium					
Comprehensive Stool Analysis (CSAP2)	2 black, 1 yellow, 1 white (frozen), no more than 5 days old	Stool	Fill Line	Fill line	2-4 weeks
Test Analytes: Bacterial culture: 73 potential species of imbalanced and dysbiotic bacteria, 4 species of beneficial bacteria. Yeast (Mycology) culture: 48 potential yeast and fungal species. Parasite isolation: 22 potential parasites. Digestion and Absorption markers: Elastase, Fat Stain, Muscle Fibers, Vegetable fibers, and Carbohydrates. Inflammation markers: Calprotectin, Lysozyme, Lactoferrin, White Blood Cells, Mucus. Immunology: Secretory Immunoglobulin A (sIgA). Short Chain Fatty Acids: Acetate, Propionate, Butyrate, Valerate. Intestinal Health markers: Red Blood Cells, pH, Occult Blood, Yeast (microscopy). Yeast sensitivity to: Fluconazole, Itraconazole, Nystatin, Flucytosin, Berberine, Caprylic acid, Uva Ursi, Goldenseal, Tanalbit, Oregano. Bacterial sensitivity to: Augmentin, Cefpodoxime, Cefuroxime, Ciprofloxacin, Tetracycline, Trimeth-sulfa, Berberine, Black Walnut, Caprilic Acid, Cats Claw, Goldenseal, Mastica, Oregano, Uva Ursi					
Copper + Zinc Profile	2 Blue top vials (no additive)	Serum	3 mL	4 mL	1-3 weeks
Test Analytes: Bound Copper, Unbound Copper, Total Copper, Zinc, Ceruloplasmin					
DNA Methylation Pathway Profile	4 Buccal Swabs	Saliva	4 swabs	4 swabs	5-6 weeks
Test Analytes: ACAT - 1-O2, AHCY - 19, AHCY - 1, AHCY - 2, BHMT - 1, BHMT - 2, BHMT - 4, BHMT - 8, CBS - A360A, CBS - C699T, CBS - N212N, COMT - 61, COMT - H62H, COMT - V158M, MAO A - R297R, MTHFR - 3, MTHFR - A1298C, MTHFR - C677T, MTR - A2756G, MTRR - 11, MTRR - A66G, MTRR - H595Y, MTRR - K350A, MTRR - R415T, MTRR - S257T, NOS - D298E, SHMT - C1420T, SUOX - S370S, VDR - Fok1, VDR - Taq1					

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES

TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
DNA Methylation Pathway Profile	4 Buccal Swabs	Saliva	4 swabs	4 swabs	5-6 weeks
Test Analytes: ACAT - 1-02, AHCY - 19, AHCY - 1, AHCY - 2, BHMT - 1, BHMT - 2, BHMT - 4, BHMT - 8, CBS - A360A, CBS - C699T, CBS - N212N, COMT - 61, COMT - H62H, COMT - V158M, MAO A - R297R, MTHFR - 3, MTHFR - A1298C, MTHFR - C677T, MTR - A2756G, MTRR - 11, MTRR - A66G, MTRR - H595Y, MTRR - K350A, MTRR - R415T, MTRR - S257T, NOS - D298E, SHMT - C1420T, SUOX - S370S, VDR - Fok1, VDR - Taq1					
ENVIROtox Panel	50 mL Urine Collection Cup	First Morning Urine			2-3 weeks
Test Analytes: See Organic Acids Test, GPL-TOX (Toxic Non-Metal Chemicals Profile), Glyphosate Test for list of analytes.					
ENVIROtox Complete Panel	50 mL Urine Collection Cup	First Morning Urine			2-3 weeks
Test Analytes: See Organic Acids Test, GPL-TOX (Toxic Non-Metal Chemicals Profile), Glyphosate Test, MycoTOX Profile (Mycotoxins) for list of analytes.					
Ferritin Test (only available in panels)	1 Serum Separator vial (gold top)	Serum	2 mL	3 mL	1-3 weeks
Test Analytes: Ferritin					
Glyphosate Test	50 mL Urine Collection Cup	First Morning Urine	5 mL	10 mL	2-3 weeks
Test Analytes: Glyphosate					
GPL-3	Miscellaneous - See Instructions	First Morning Urine & DBS or Serum			2-3 weeks
Test Analytes: GPL3-DBS: See Organic Acids Test (OAT), Metals Hair Test and IgG Food MAP with Candida + Yeast GPL3-Serum: See Organic Acids Test (OAT), Metals Red Blood Cell, IgG Food MAP with Candida + Yeast					
GPL-TOX (Toxic Non-Metal Chemical Profile) (173)	50 mL Urine Collection Cup	First Morning Urine	10 mL	10 mL	1-2 weeks
Test Analytes: 2-,3-,4-Methylhippuric Acid (2MHA), N-Acetyl Phenyl Cysteine (NAP), Phenylglyoxylic Acid (PGO), 2-Hydroxyisobutyric Acid (2HIB), Monoethyl Phthalate (MEP), Dimethylphosphate (DMP), Diethylphosphate (DEP), 3-Phenoxybenzoic Acid (3PBA), 2,4-Dichlorophenoxyacetic Acid (2,4-D), Tiglylglycine (TG), N-Acetyl (Carbomethyl) Cysteine (NAE), Diphenyl Phosphate, Perchlorate, N-Acetyl (3,4-Dihydroxybutyl) Cysteine (NABD), N-Acetyl (2-Hydroxypropyl) Cysteine (NAHP), N-Acetyl (Propyl) Cysteine (NAPR), 2-Hydroxyethyl Mercapturic Acid (HEMA), N-Acetyl (2-Cyanoethyl) Cysteine (NACE), N-acetyl-S-(3-hydroxypropyl)-L-cysteine (3-HPMA)					
Homocysteine Test	1 Serum Separator vial (gold top)	Serum	.5 mL	1 mL	2-3 weeks
Test Analytes: Homocysteine					
Hormones Comprehensive Plus Profile	4 vials	Collect saliva four (4) times in one day	Each vial 3/4 full	Each vial 3/4 full	1-3 weeks
Test Analytes: Estrone, Estradiol, Estriol, Progesterone, Testosterone, DHEA, am/noon/evening/pm Cortisol					
Hormones Comprehensive Profile	4 vials	Collect saliva four (4) times in one day	Each vial 3/4 full	Each vial 3/4 full	1-3 weeks
Test Analytes: Estradiol, Progesterone, Testosterone, DHEA, am/pm Cortisol					

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES

TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
IgE Food Allergy Basic Test (25)	2 Serum Separator vials (gold top)	Serum	2 mL	5 mL	1-2 weeks
Test Analytes: Almond, Apple, Barley, Beef, Carrot, Chicken, Chocolate, Corn, Egg (Whole), Garlic, Green Bean, Milk, Oat, Onion, Orange, Peanut, Pork, Potato, Rice, Shrimp, Soybean, Tomato, Tuna, Wheat, White Bean, Yeast (Bakers)					
IgE Food Allergy Advanced Test (93)	3 Serum Separator vials (gold top)	Serum	6 mL	8 mL	1-2 weeks
Test Analytes: Barley, Beans and Peas, Beet, Blueberry, Broccoli, Buckwheat, Cabbage, Cane Sugar, Carrot, Casein, Cashews, Cayenne Pepper, Celery, Cheese, Chicken, Cocoa, Coconut, Cod Fish, Coffee, Corn, Crab, Egg White, Egg Yolk, Eggplant, Flax, Garbanzo Bean, Garlic, Goat Cheese, Grape, Grapefruit, Green Bean, Green Bell Pepper, Halibut, Hazelnut, Honey, Kidney Bean, Lamb, Lemon, Lentil, Lettuce, Lima Bean, Lobster, Mango, Milk, Millet, Mushroom, Oat, Onion, Orange, Papaya, Pea, Peach, Peanut, Pear, Pecan, Pineapple, Pinto Bean, Pistachio, Plum (Prune), Pork, Potato, Pumpkin, Radish, Raisin, Rice, Rye, Salmon, Sardine, Sesame, Shrimp, Soybean, Spinach, Strawberry, Sunflower, Sweet Potato, Tomato, Tuna, Turkey, Walnut, Watermelon, Wheat Gluten, Wheat, Whey, Yeast (Bakers, Brewers), Yogurt, Zucchini					
IgE Inhalant Allergy Basic Test (36)	2 Serum Separator vials (gold top)	Serum	3 mL	5 mL	1-2 weeks
Test Analytes: Alder, Alternaria Tenuis, Ash (White), Aspergillus Fumigatus, Beech (American), Bermuda Grass, Birch (White), Box Elder, Burning Bush, Cat, Cladosporium Herbarum, Cocklebur, Cockroach, Cottonwood (Eastern), Dog, Elm (White), Hickory, White, Lamb's Quarters, Marsh Elder (Rough), Meadow Fescue, Mite (D. Farinae, D. Pterony sinus), Mugwort, Nettle, Oak (White), Orchard/Cocksfoot, Penicillium Notatum, Perennial Rye, Pigweed (Rough), Pine Mix, Plantain (English), Privet, Ragweed (Short), Sheep Sorrell, Sycamore, Timothy Grass					
IgE Inhalant Allergy Advanced Test (69)	3 Serum Separator vials (gold top)	Serum	5 mL	8 mL	1-2 weeks
Test Analytes: Acacia, Aceyl Salicylic Acid, Alder, Alternaria Tenuis, Ampicillin, Ash (White), Aspergillus Fumigatus, Bahia Grass (Tall), Bermuda Grass, Bipolaris Spicifera, Bluegrass (Kentucky), Box Elder, Brome Grass, Candida Albicans, Cat, Chicken Feathers, Cladosporium Herbarum, Cocklebur, Cockroach, Corn, Cottonwood (Eastern), Cypress (Bald), Dockweed (Yellow), Dog, Elm (White), Epicoccum Purpurascens, Fusarium Moniliforme, Goldenrod, Helminthosporium Halodes, Hickory, White, Horse Dander, Johnson Grass, Lamb's Quarters, Latex, Maple (Red), Marsh Elder (Rough), Meadow Fescue, Mite (D. Farinae, D. Pterony sinus), Mountain Cedar, Mouse, Mucor Racemosus, Mulberry (Red and White), Nettle, Oak (Live, Red, White), Oats (Cultivated), Pecan, Penicillium Notatum, Perennial Rye, Phoma Betae, Pigweed (Rough), Plantain (English), Privet, Rabbit, Ragweed (Giant, Short), Rye (Cultivated), Sheep Sorrell, Stemphylium Botryosum, Sweet Gum, Sycamore, Timothy Grass, Tree of Heaven, Walnut (Black), Wheat (Cultivated), Willow (Black)					
IgE Allergy Advanced Combined Test (93/69)	8 Serum Separator vials (gold top)	Serum	10 mL	12 mL	1-2 weeks
Test Analytes: See IgE Food Allergy Advanced Test (93) and IgE Inhalant Allergy Advanced Test (69) for list of analytes.					
IgG Food MAP with Candida + Yeast – Serum or DBS	1 Serum Separator vial (gold top) OR DBS Blood Collection Card	Serum or DBS	.5 mL or 4 spots	1 mL or 5 spots	1-2 weeks
Test Analytes: Candida. Yeast – Saccharomyces Cerevisiae. DAIRY – Beta-Lactoglobulin, Casein, Cheddar Cheese, Cow's Milk, Goat's Milk, Mozzarella Cheese, Sheep's Yogurt, Whey, Yogurt. BEANS AND PEAS – Adzuki Bean, Black Bean, Garbanzo Bean, Green Bean, Green Pea, Kidney Bean, Lentil, Lima Bean, Mung Bean, Navy Bean, Pinto Bean, Soybean, Tofu. FRUITS – Acai Berry, Apple, Apricot, Banana, Blueberry, Cantaloupe, Cherry, Coconut, Cranberry, Date, Grape, Grapefruit, Guava, Jackfruit, Kiwi, Lemon, Lychee, Mango, Orange, Papaya, Passion Fruit, Peach, Pear, Pineapple, Plum, Pomegranate, Raspberry, Strawberry, Watermelon. GRAINS – Amaranth, Barley, Buckwheat, Corn, Gliadin, Malt, Millet, Oat, Quinoa, Rice, Rye, Sorghum, Tef, Wheat Gluten, Whole Wheat. FISH/SEAFOOD – Abalone, Anchovy, Bass, Bonito, Codfish, Crab, Halibut, Lobster, Mackerel Saba, Octopus, Oyster, Pacific Mackerel (Saba), Pacific Saury, Perch, Red Snapper, Salmon, Sardine, Scallop, Shrimp, Small Clam, Squid, Tilapia, Trout, Tuna. MEAT/FOWL – Beef, Chicken, Duck, Egg White, Egg Yolk, Goose, Lamb, Pork, Turkey. NUTS/SEEDS – Almond, Brazil Nut, Cashew, Chestnut, Chia Seed, Flax Seed, Hazelnut, Hemp Seed, Macadamia Nut, Peanut, Pecan, Pine Nut, Pistachio, Pumpkin Seed, Sesame Seed, Sunflower Seed, Walnut. VEGETABLES – Artichoke, Asparagus, Avocado, Bamboo Shoot, Bean Sprout, Beet, Bell Pepper, Bitter Melon, Broccoli, Brussel Sprout, Burdock Root, Cabbage, Carrot, Cauliflower, Celery, Chili Pepper, Cucumber, Eggplant, Enoki Mushroom, Garlic, Kale, Leek, Lettuce, Lotus Root, Napa Cabbage, Olive (Green), Onion, Portabella Mushroom, Potato, Pumpkin, Radish, Seaweed Kombu Kelp, Seaweed Nori, Seaweed Wakame, Shitake Mushroom, Spinach, Sweet Potato, Tomato, Yam, Yellow Squash, Yuca, Zucchini. HERBS/SPICES – Basil, Bay Leaf, Black Pepper, Cayenne Pepper, Cilantro, Cinnamon, Cloves, Cumin, Curry, Dill, Ginger, Hops, Mint, Miso, Mustard Seed, Oregano, Paprika, Rosemary, Sage, Tarragon, Thyme, Turmeric, Vanilla Bean. MISCELLANEOUS – Bromelain, Cane Sugar, Cocoa Bean, Coffee, Green Tea, Honey, Meat glue, Oolong Tea.					

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES

TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
Iron + Total Iron-Binding Capacity Test (TIBC)	1 Serum Separator vial (gold top)	Serum	.5 mL	1 mL	2-3 weeks
Test Analytes: Iron, Total Iron-Binding Capacity					
Kryptopyrrole Test (USA only)	Amber plastic vial (w/ additive), frozen, pack on ice	Urine	8 mL	10 mL	2-3 weeks
Test Analytes: Kryptopyrrole					
Metals Fecal Test (13)	1 red-top (US) (with ultra-pure water) No more than 7 days old	Stool	1/2 full	Fill Line	2-3 weeks
Test Analytes: TOXIC: Antimony, Arsenic, Beryllium, Bismuth, Cadmium, Copper, Lead, Mercury, Nickel, Platinum, Thallium, Tungsten, Uranium					
Metals Hair Test (39)	Hair – Collect from nape of the neck	Hair	.25 grams	1 gram	2-3 weeks
Test Analytes: Nutritional: Calcium, Magnesium, Sodium, Potassium, Copper, Zinc, Manganese, Chromium, Vanadium, Molybdenum, Boron, Iodine, Lithium, Phosphorus, Selenium, Strontium, Sulfur, Barium, Cobalt, Iron, Germanium, Rubidium, Zirconium. Ratios: Calcium/Magnesium, Sodium/Potassium, Zinc/Copper, Zinc/Cadmium, Calcium/Phosphorus Toxic: Aluminum, Antimony, Arsenic, Beryllium, Bismuth, Cadmium, Lead, Mercury, Platinum, Thallium, Thorium, Uranium, Nickel, Silver, Tin, Titanium					
Metals Red Blood Cell Test (18)	2 Blue-top vials (Potassium EDTA)	Packed cells	2 mL Pk Cells	4 mL Pk Cells	2-3 weeks
Test Analytes: Nutritional: Boron, Chromium, Calcium, Copper, Iron, Magnesium, Manganese, Molybdenum, Phosphorus, Potassium, Selenium, Vanadium, Zinc Toxic: Arsenic, Cadmium, Lead, Mercury, Thallium					
Metals Urine Test (37)	50 mL Urine Collection Cup	First Morning (or 24hr) Urine	40 mL	50 mL	2-3 weeks
Test Analytes: Essential: Boron, Calcium, Cesium, Chromium, Cobalt, Copper, Iron, Lithium, Magnesium, Manganese, Molybdenum, Phosphorus, Potassium, Selenium, Sodium, Strontium, Sulfur, Vanadium, and Zinc Toxic: Aluminum, Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Cesium, Gadolinium, Lead, Mercury, Nickel, Palladium, Platinum, Tellurium, Thallium, Thorium, Tin, Tungsten, Uranium					
Metals Whole Blood Test (20)	1 Blue-top vial (Potassium EDTA)	Whole Blood	7 mL	7 mL	2-3 weeks
Test Analytes: NUTRITIONAL: Calcium, Copper, Lithium, Magnesium, Manganese, Molybdenum, Selenium, Strontium, Zinc TOXIC: Arsenic, Barium, Cadmium, Cobalt, Lead, Mercury, Nickel, Platinum, Thallium, Tungsten, Uranium					
Microbial Organic Acids Test (MOAT) (21)	50 mL Urine Collection Cup	First Morning Urine	5 mL	10 mL	1-2 weeks
Test Analytes: Citramalic, 5-Hydroxymethyl-2-Furoic, 3-Oxoglutaric, Furan-2, 5-Dicarboxylic, Furancarboxylglycine, Tartaric, Arabinose, Carboxycitric, Tricarballic, 2-Hydroxyphenylacetic, 4-Hydroxyphenylacetic, 4-Hydroxybenzoic, 4-Hydroxyhippuric, HPPHA (Clostridia marker), 4-Cresol, DHPPA (beneficial bacteria), Hippuric, 3-Indoleacetic, 3-Hydroxy-3-methylglutaric, 2-Hydroxyhippuric, Creatinine					

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES

TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
Microbiology Test	1 yellow-top vial provided, no more than 7 days old	Stool	Fill Line	Fill Line	2-3 weeks
Test Analytes: Bacterial culture: 73 potential species of imbalanced and dysbiotic bacteria, 4 species of beneficial bacteria. Bacterial sensitivity to: Augmentin, Cefpodoxime, Cefuroxime, Ciprofloxacin, Tetracycline, Trimeth-sulfa, Berberine, Black Walnut, Caprylic Acid, Cats Claw, Goldenseal, Mastica, Oregano, Uva Ursi. Yeast (Mycology) culture: 48 possible yeast and fungal species; Yeast (microscopy - visible presence of yeast cells); Yeast sensitivity to: Berberine, Caprylic Acid, Uva Ursi, Tannic Acid, Oregano, Undecylenic Acid, Citrus Seed Extract, Nystatin, Fluconazole, Itraconazole, Ketoconazole					
Mold IgE Allergy Test (12)	1 Serum-Separator vial (gold top)	Serum	2 mL	5 mL	2-3 weeks
Test Analytes: Penicillium notatum (chrysogenum), Cladosporium herbarum, Aspergillus fumigatus, Mucor racemosus, Candida albicans, Alternaria tenuis (alternata), Helminthosporium halodes, Fusarium moniliforme, Stemphylium botryosum, Phoma betae, Epicoccum purpurascens, Bipolaris spicifera					
Mold IgE Allergy Test + MycoTOX Profile Combo (23)	1 Serum-Separator vial (gold top) + 50 mL Urine Collection Cup	Serum + First Morning Urine			2-3 weeks
Test Analytes: See Mold IgE Allergy Test, MycoTOX Profile (Mycotoxins) for list of analytes.					
MycoTOX Profile (Mycotoxins) (11)	50 mL Urine Collection Cup	First Morning Urine	5 mL	10 mL	1-2 weeks
Test Analytes: Aflatoxin M1 (AFM1), Ochratoxin A (OTA), Sterigmatocystin (STG), Roridin E, Verrucaric Acid, Enniatin B1, Zearalenone (ZEA), Gliotoxin (GTX), Mycophenolic Acid, Dihydrocitrinone, Chaetoglobosin A					
Omega-3 Index Complete – Dried Blood Spot (DBS)	DBS Blood Collection Card	Serum	1 spot	1 spot	2-3 weeks
Test Analytes: OMEGA-3 FATTY ACIDS: alpha-Linolenic, Eicosapentaenoic, Docosapentaenoic - n3, Docosahexaenoic; OMEGA-6 FATTY ACIDS: Linoleic, gamma-Linolenic, Eicosadienoic, Dihomo-g-linolenic, Arachidonic, Docosatetraenoic, Docosapentaenoic - n6; CIS-MONOSATURATED FATTY ACIDS: Palmitoleic, Oleic, Eicosenoic, Nervonic; SATURATED FATTY ACIDS: Myristic, Palmitic, Stearic, Arachidic, Behenic, Lignoceric; TRANS FATTY ACIDS: Palmitelaidic, Elaidic, Linoelaidic, Trans Fat Index; RATIOS: AA:EPA, Omega-6:Omega-3					
Organic Acids Test (76)	50 mL Urine Collection Cup	First Morning Urine	5 mL	10 mL	1-2 weeks
Test Analytes: Citramalic, 5-Hydroxymethyl-2-furoic, 3-Oxoglutaric, Furan-2,5-dicarboxylic, Furancarboxylglycine, Tartaric, Arabinose, Carboxycitric, Tricarballic, 2-Hydroxyphenylacetic, 4-Hydroxyphenylacetic, 4-Hydroxybenzoic, 4-Hydroxyhippuric, Hippuric, 3-Indoleacetic, Succinic, HPPHA (Clostridia marker), 4-Cresol (C. difficile), DHPPA (beneficial bacteria), Glyceric, Glycolic, Oxalic, Lactic, Pyruvic, 2-Hydroxybutyric, Fumaric, Malic, 2-Oxoglutaric, Aconitic, Citric, Homovanillic Acid (HVA), Vanillmandelic Acid (VMA), HVA/VMA Ratio, 5-Hydroxyindoleacetic (5-HIAA), Quinolinic, Kynurenic, HVA/DOPAC Ratio, Dihydroxyphenylacetic (DOPAC), Uracil, Thymine, 3-Hydroxybutyric, Acetoacetic, 4-Hydroxybutyric, Ethylmalonic, Methylsuccinic, Adipic, Suberic, Sebatic, Methylmalonic (Vitamin B12), Pyridoxic (Vitamin B6), Pantothenic (Vitamin B5), Glutaric (Vitamin B2-Riboflavin), Ascorbic (Vitamin C), 3-Hydroxy-3-methylglutaric (Vitamin Q10-CoQ10), N-Acetylcysteine (Glutathione precursor and chelating agent), Methylcitric (Vitamin H-Biotin), Pyroglutamic, Orotic, 2-Hydroxyhippuric, 2-Hydroxyisovaleric, 2-Oxoisovaleric, 3-Methyl-2-oxovaleric, 2-Hydroxyisocaproic, 2-Oxoisocaproic, 2-Oxo-4-methylolbutyric, Mandelic, Phenyllactic, Phenylpyruvic, Homogentisic, 4-Hydroxyphenyllactic, N-Acetylaspartic, Malonic, 3-Methylglutaric, 3-Hydroxyglutaric, 3-Methylglutaconic, Phosphoric					
Porphyryns Profile	1 Amber plastic vial, no additive (light sensitive)	Urine	5 mL	10 mL	2-3 weeks
Test Analytes: Coproporphyrin I and III (CP), Heptacarboxy (7-CP), Hexacarboxy (6-CP), Pentacarboxy (5-CP), Precoproporphyrin (PreCP), Uroporphyrins (UP)					

SPECIMEN REQUIREMENTS AND TURN-AROUND TIMES

TEST	TYPE OF VIAL / VIAL	TYPE OF SPECIMEN	MINIMUM	MAXIMUM	TURN-AROUND TIME
Streptococcus Antibodies Profile	1 Serum-Separator vial (gold top)	Serum	2 mL	3 mL	1-3 weeks
Test Analytes: DNase antibodies in serum (ADB); Antistreptolysin O titer (ASO)					
Vitamin D Test - Serum	1 Serum-Separator vial (gold top)	Serum	1 mL	2 mL	1-3 weeks
Vitamin D Test - DBS	DBS Blood Collection Card	Dried Blood Spot	3 spots	5 spots	1-3 weeks
Test Analytes: 25-Hydroxyvitamin D2 (ergocalciferol), 25-Hydroxyvitamin D3 (cholecalciferol)					
Please note: International Test Kits – Blue-Top vials are sent in place of Serum-Separator vials (gold top) Updated 4/7/2022					