



MICRO QUALITY LABS, INC.

ANALYTICAL TEST METHODS

Test Methods Available at MQL

1,4 Dioxane by GC

1,4 Dioxane by GC-MS

1,4 Dioxane in Cosmetics by GC-MS

1-Octocosanol by GC/MS

Acetaminophen Assay by HPLC

Acetyl-L-Carnitine Assay By HPLC

Aescin Assay by UV/VIS

Alcohol Assay by GC

Alfalfa Powder Assay by HPLC

Alfalfa Sprout by TLC

Allantoin Assay by HPLC

Allantoin Content Assay

Alpha Lipoic Acid by HPLC

Aluminum Method (ICP-MS)

Amino Acid Assay with OPA Derivitization by HPLC

Aminophylline Assay by HPLC (USP)

Amylase, Alpha Assay by Spectrophotometer (UV)

Andrographis Extract by HPLC

Appearance Evaluation of Stability, Bulk and Finished Good Samples

Appearance Testing for Raw Materials and Finished Goods



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ANALYTICAL TEST METHODS

Arbutin Assay by HPLC

Artichoke Assay by HPLC

Ascorbyl Tetraisopalmitate (THDVXC-EX)

Ashwaganda Assay by TLC

Aspartame Assay by Titration

Assay of Benzalkonium Cl by HPLC

Astragalus Assay by TLC

B12 (Cyanocobalamin) Raw Material Assay by Spectrophotometry

Basic Rules of Analytical Laboratory Group

Benzethonium Cl Assay by HPLC

Benzocaine & Lidocaine Assay, by Reverse Phase HPLC

Benzocaine Assay, Raw Material

Benzoyl Peroxide, Finished Product

Beta Carotene Assay by UV

Beta Sitosterol Assay by HPLC

Betaine HCL by HPLC

Betaine Hydrochloride by HPLC

Bilberry Assay by HPLC

Bioflavonoids Assay (Hesperidin) by HPLC

Biotin Assay by HPLC

Bitter Orange Fruit by TLC



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ANALYTICAL TEST METHODS

Black Cohosh Assay by HPLC

Black Walnut (Juglone) by HPLC

Bladderwrack Tips by TLC

Blueberry

Blueberry Fruit by TLC

Boswellia Assay by HPLC

Boswellic (Boswellia) Acid by HPLC

Bromelain Assay by HPLC

Brookfield Dial Reading Viscometer Brookfield Digital Viscometer Operating Instructions

BV-OSC Assay by HPLC

Caffeine Assay by HPLC

Caffine Assay by HPLC

Calibration of Scale

Calibration Procedure for RVT and LVT Brookfield Viscometer

Capsicum Oleoresin

Carotenoids by HPLC

Cetyl Alcohol by GC-FID

Chamomile Assay by HPLC

Chamomile Assay by HPLC

Chamomile by TLC (USP)

Chaste Tree Assay by HPLC



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ANALYTICAL TEST METHODS

Chloride by ICP-MS (calc)
Chlorine Concentration Determination
Chlorine Test Kit for DI Water
Chloroxylenol Assay by GC-FID
Choline Bitartrate Assay by HPLC
Choline Bitartrate by HPLC
Chondroitin Sulfate and Glucosamine HCL Assay By HPLC
Chondroitin Sulfate Assay by HPLC
Chromium Assay by ICP-MS
Citric Acid Anhydrous by Titration
Citrus Bioflavonoids, Raw Material Method
Clotrimazole Assay by HPLC
Clove Powder
Cocoa Extract
Coenzyme Q10 by HPLC
Conductivity Meter Calibration
Coumarin (Cinnamon Extract) Assay by HPLC
Cranberry Assay by TLC
Cranberry Whole Concentrate Assay by HPLC
Creatine Monohydrate Assay by HPLC
Curcumin (Curcuminoids) Assay by HPLC



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ANALYTICAL TEST METHODS

Density

Determination of Hydrogen Peroxide in Tooth Whitening

Determination of Lead (Pb) Contents in Cosmetic Products by ICP-MS

Determination of Nickel Content by ICP-MS

Determination of Octacosanol Purity by GC

Determination of Sodium and Potassium Contents in Cosmetic Products by ICP-MS

Determination of t-Resveratrol In Plant Extracts: HPLC Method

Determining Lead and Its Availability in Finished Products

Devil's Claw Assay by HPLC

Di-Butyl Phthalate by GC-MS

Dietary Fiber Assay by AOAC

Diethylene Glycol Assay by GC

Digestion Tubes Verification and Calibration Procedure

Dihydroxyacetone Assay, by Reverse Phase HPLC

Dimethicone Assay by IR

Dimethyl Glycine Assay by HPLC

Diphenhydramine HCl by HPLC

Diphenhydramine HCl by HPLC

Dipotassium Glycyrrhinate, for Finished Products

Disintegration Testing

DL-Phenylalanine Assay by HPLC



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ANALYTICAL TEST METHODS

Dong Quai by TLC
Echinacea Assay by HPLC
EDTA Content by HPLC
EGCG Assay by HPLC
EGCG Assay by UV Spectroscopy
Elderberry Assay by TLC
Ensulizole Assay by HPLC
Ensulizole Raw Material
EPA and DHA Assay By HPLC
Ephedra Assay by HPLC
Epimedium Assay by HPLC
Establishing Stability of Standard Solutions
Eucalyptol, Menthol, Methyl Salicylate and Thymol Assay by GC-MS
Eucalyptol, Methyl Salicylate, Menthol Assay by GC
Evening Primrose Powder by GC FID
Eyebright Assay by TLC
Fatty Acids in Botanicals Assay by GC-FID (USP Method)
Fatty Acids in Botanicals by GC-MS
Fatty Acids in Plant Extracts by GC-FID (Naturex Method)
Feverfew Assay by HPLC
Flash Point



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ANALYTICAL TEST METHODS

Folic Acid Assay by HPLC
Formaldehyde & Its Releasers In Finished Products
Formaldehyde Assay in Finished Products by HPLC
Free (Physiological) Amino Acid Analysis by GC FID
FT-IR Method Using the Perkin Elmer Spectrum 100 FT-IR Spectrometer
Fungal Activity of Disinfectants
G.C. Operating Instructions
Ginger Root Ext by HPLC
Ginkgo Biloba (Flavone Glycosides) Assay by HPLC
Ginkgo Biloba Assay by TLC
Ginkgo Assay by HPLC
Ginseng Assay by HPLC
Ginsenosides Assay by UV
Global Artichoke by TLC
Glucuronic (Hyaluronic) Acid by UV-VIS
Gluten (Gliadin) Assay by UV
Goldenseal Assay by HPLC
Gotu Kola Assay by HPLC
Grape Skin Extract by UV
Green Tea Extract (EGCG) by HPLC
Griffonia Assay by HPLC



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ANALYTICAL TEST METHODS

Guanidine Assay by HPLC

Guggl Assay by HPLC

Gymnema Sylvester Assay by TLC

Gymnemic Acid Assay by HPLC

Heavy Metals by ICP-MS

Holy Basil Leaf 4:1 Ext by TLC

Homosalate Assay by GC (USP Method)

Hops Assay by HPLC

Hops Powder by TLC

Hydrocortisone Assay

Hydrogen Peroxide

Hydroquinone Assay for Obagi Products by HPLC

Hydroquinone Assay, by Reverse Phase HPLC

Hydroquinone Assay, Raw Material

Hydroxycitric Acid Assay by HPLC

Ibuprofen by HPLC

Inositol Assay by GC-MS

Inositol Assay by HPLC

Inulin Assay by UV

Jujube Assay by TLC

Kathon CG Assay by HPLC



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ANALYTICAL TEST METHODS

Kava Assay by HPLC

KF Water Content Analysis & Moisture Content

L-5-Hydroxytryptophan Assay by HPLC

L-Arginine Assay by HPLC (USP)

L-Cysteine HCl by HPLC

Leucovorin Calcium (Folinic Acid) Assay by HPLC

L-glutamic Acid HCl by HPLC

L-glutamine

L-Glutamine Assay by HPLC

Licorice Assay by TLC

Licorice Assay by TLC (USP)

Lipase (FCC Method)

L-Theanine Assay by HPLC

L-Tryptophan Assay by HPLC

Lycopene (USP Method)

Lycopene by HPLC

Magnolia Root Ext By HPLC

Maintenance Standard Operating Procedure for PE Sciex Elan 6100 ICP-MS

Malic Acid Assay (USP)

Marshmallow Assay by TLC

Melamine by GC-MS (FDA Method)



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ANALYTICAL TEST METHODS

Melatonin Assay by HPLC

Menthol Assay – Analytical Test Method

Methacrylic Acid Assay by HPLC

Methyl Salicylate Assay- Analytical Test Method

Methyl Salicylate Assay by GCMS

Methyl Salicylate Assay by GC-MS (Truett Method)

Methylene Blue Assay by TLC (USP)

Methyltetrahydrofolate Assay by HPLC

Miconazole Nitrate by HPLC, Assay of

Milk Thistle Assay by HPLC

Minoxidil by HPLC, Assay of

Molybdenum Assay by ICP-MS

MSM by Gas Chromatography

Mullein by TLC

Multivitamin Assay by HPLC

Multivitamins Assay by HPLC

Multiwave 3000 Microwave Reaction System Operation

N-Acetyl-D-Glucosamine by HPLC

N-Acetyl-L-Cysteine by HPLC

Nicotine Assay by GCMS

Octinoxate Assay by GC (USP Method)



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ANALYTICAL TEST METHODS

Octisalate Assay by GC (USP Method)

Octopirox Assay by HPLC

Octyl Salicylate, Octyl Methoxycinnamate, Benzophenone-3, or Parsol 1789 Assay, Raw Material

Octylphenol Assay by HPLC

Oil Soluble Vitamin Assay by HPLC

Olive Leaf Assay by HPLC

Omegas 3, 6, 9 Assay by GC-MS

Operating Instructions for the Beckman DU Series 600 Spectrophotometer

Operating Instructions for HPLC

Operating Instructions for Spectralight III

Operation Instructions for Scale

Organic Acids Assay by HPLC

OTC Drug Stability Program Freeze/Thaw Testing

OTC Stability Program

Oxybenzone, Octocrylene, Octinoxate, Octisalate Homosalate and Avobenzone Assay by HPLC

Oxymetazoline HCl Assay by HPLC

PABA Assay by HPLC

Paeoniflorin (Chinese Poeny) Identification by HPLC

Pancreatin Assay (USP) by Titration

Papain Assay by Spectrophotometer

Papain By HPLC



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ANALYTICAL TEST METHODS

Parabens and Phenoxyethanol Assay, for Fin. Prod.
Parsley Assay by TLC
Parsley Powder Assay by HPLC
Passion Flower Assay by TLC
Passionflower Assay by HPLC
Pau D'Arco Bark by TLC
Peppermint Assay by TLC
Peptide Assay by HPLC
Peroxide Value (Rancidity)
Pesticides In Botanicals/Dietary Supplements (AOAC/QuEChERS Modified)
Phenol by GC-FID
Phenoxyethanol, Benzoic Acid
Phloroglucinol (Seanol) Assay by UV
Phthalates Assay by GC-MS
Piperonyl Butoxide & Pyrethrins Assay by GC-FID (AOAC)
Piperonyl Butoxide & Pyrethrins Assay by Reverse Phase HPLC
Piperonyl Butoxide Assay by HPLC
Polyphenols Assay by UV
Preparation of Stability Sample
Proanthocyanidins Assay by UV
Protein Assay by Titration



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ANALYTICAL TEST METHODS

Proteolytic Activity

Pterostilbene by HPLC

Pumpkin Seed Assay by HPLC

Pycnogenol (French Maritime pine bark ext) Assay by UV

Pygeum Extract Phytosterol by HPLC

Pyrethrum Extract, USP Method

Quassia Amara Assay by TLC

Quat Assay by Titration

Quercetin Assay By HPLC

Raw Material Identification by UV

Rebaudiosides (Stevia) Assay by HPLC

Recorsinol

Red Clover Assay by HPLC

Red Clover Extract by TLC

Refractive Index

Residual Solvents by GC-FID

Resveratrol by HPLC

Rezal-36G by ICP-MS

Rhodamine Assay by HPLC

Rhodiola Assay by HPLC

Riboflavin Assay by HPLC



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ANALYTICAL TEST METHODS

Rice Bran Powder Assay by HPLC
Rosavin Assay by HPLC
Rose Hips Assay by TLC
Rosemarinic Acid by HPLC
Rosemary
Rutin Assay by HPLC
Salicin Assay by HPLC
Salicylic Acid Assay by HPLC
Salicylic Acid Assay, Raw Material
Salicylic Acid by GC-MS
Salicylic Acid by HPLC (Second Method)
Salicylic Acid Raw Material
Sample Digestion by Perkinelmer's Anton Paar Multiwave Sample Preparation Device Zinc and Titanium Cosmetic Samples
Saw Palmetto Assay by TLC
Saw Palmetto by GC FID
Schisandra Assay by HPLC
Senna Assay by HPLC
Senna Leaves by TLC
Sennosides Assay by HPLC
Shavegrass (Horsetail) by HPLC
Siberian Ginseng Assay by HPLC



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ANALYTICAL TEST METHODS

Sildenafil Citrate Assay by HPLC

Silymarin Assay by HPLC

Skullcap Assay by HPLC

Sodium Fluoride Assay by Spectroscopy

Sodium Hypochlorite Assay by Titration

Solvents Assay by GC-FID

Sorbic Acid Assay by HPLC

Soy Assay by HPLC

Soy Isoflavones Assay by HPLC

Spearmint Assay by TLC

Specific Gravity – Pycnometer Method

Steviosides Assay by HPLC

Sulfur Assay

Sunscreens Assay (for Products Containing Anthranilate)

Sunscreens Assay (for Products Containing no Avobenzone)

Sunscreens Assay (for Products Containing Ocpadex)

Sunscreens Assay for Products Containing Avobenzone and Octyl Methoxycinnamate

Synephrine Assay by HPLC

Tartaric Acid by Titration (USP Method)

Tartaric Acid Assay by HPLC

Taurine Assay by AOAC



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ANALYTICAL TEST METHODS

Taurine Assay w/Dansyl Chloride Derivitization by HPLC

Taurine Assay with NBD-F Derivitization by HPLC

Tetracaine by USP

Theanine by GC FID

Theobromine Assay by HPLC

Thermometer Calibration

Titanium Dioxide Content

To Determine and Olfactory Character in Raw Materials and manufactured Products Against Established Standards

TOC Analysis Using Sievers 800 Analyzer

Tocopherols Assay by HPLC

Tolnaftate In Finished Product (1% In Anti-Fungal Solution)

Toluene by GC-FID

Total Suspended Solids (TSS)

Tretinoin Assay by HPLC

Triclosan Assay, By Phase HPLC

Tumeric Assay by HPLC

Tumeric Assay by TLC

Undecylenic Acid Assay by GC

Undecylenic Acid by HPLC

Underivatized Amino Acid Assay by HPLC

Urea Analysis by UV



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ANALYTICAL TEST METHODS

Use of pH Meter

Use of Ultrasonic Cleaning System for Sonication

Valerian Assay by HPLC

Valerian Root Extract by GC MS

Vitamin B12 by HPLC

Vitamin C Assay by Titration

Vitamin C by HPLC

Vitamin E Assay, for Finished Products

Vitamin E Succinate by GC-FID

Vitamin E Succinate by HPLC

Vitamin K1 Assay by HPLC

Vitamin K2 (as MK-7) by HPLC

Water and Oil-Soluble Vitamins by HPLC

Water Bath Calibration

Water Evaluation (USP and JP), Chemical Testing for

Watercress Assay by TLC

Watercress Powder Assay by HPLC

Wheat Grass by TLC

Yerba Mate by TLC

Zinc and Titanium Method, for the Determination by ICP-MS

Zinc Omadine/Titration



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ANALYTICAL TEST METHODS

Zinc Oxide Assay

Zinc Pyrithione Assay by HPLC

Zinc Pyrithione Content