



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MEDALLION LABS
 9000 Plymouth Avenue North
 Golden Valley, MN 55427
 Bryan Mansager Phone: 763 764 5063

CHEMICAL

Valid To: June 30, 2025

Certificate Number: 2769.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with the A2LA Food Testing Program Requirements, containing the 2018 “*AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food, Dietary Supplements and Pharmaceuticals*”), accreditation is granted to this laboratory to perform the following tests on foods and food ingredients:

<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
<u>Wet Chemistry</u>		
Ash by Gravimetric Assay	MED-QL 567	AOAC 923.03
Dietary Fiber (Insoluble, Soluble and Total) by Gravimetric Analysis	MED-QL 514	AOAC 991.43 (Modified)
Free Fatty Acids by Titration	MED-QL 604	AOCS Ca 5a-40
Insoluble, Soluble, and Total Dietary Fiber (Codex Definition)	MED-QL 570	AOAC 2009.01 (Modified), 2011.25 (Modified)
Moisture by Gravimetric Analysis – Forced Air Oven	MED-QL 553	AOAC 926.07, 925.10 (Modified), 950.46 (Modified), 931.04 (Modified), 935.29 (Modified); AACC 44-15A, 44-31 (Modified)
Moisture by Gravimetric Analysis – Vacuum Oven	MED-QL 555	AOAC 926.08, 977.21 (Modified), 934.06, 927.05, 934.01 (Modified), 925.09, 969.38, 925.40, 930.04, 931.04, 945.43 (Modified); AACC 44-15A, 44-40
Peroxide Value by Titration	MED-QL 534	AOAC 965.33; AOCS Cd 8-53
Protein by Combustion	MED-QL 532	AOAC 992.15; AACC 46-30

<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Total Fat by Acid Hydrolysis	MED-QL 510	AOAC 922.06, 948.15, 925.32, 950.54, 920.115f, 932.06, 922.09, 952.06, 989.05, 933.05 (Modified)
<u>Chromatography</u>		
Fats and Cholesterol by GC	MED-QL 511	AOAC 996.06, 976.26 (Modified)
Folic Acid by UPLC MS/MS	MED-QL 516	AOAC 2011.06 (Modified)
Pesticides by QuEChERS – Mass Spectrometry: 1,2,3,4-Tetrachlorobenzene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene 1-Naphthol 2,3,5,6-Tetrachloroaniline 2,3,5,6-Tetrachloroanisole 2,3,5-Trimethacarb 2,4-Dicofol (screened as 2,4-Dichlorobenzophenone) 2,6-Dichlorobenzamide 2,6-Diethylaniline 2,6-Diisopropylnaphthalene 2-Ethylhexyldiphenyl phosphate 2-Phenylphenol 3,4,5-Trimethacarb 3,4-Dichloroaniline 3-Hydroxycarbofuran 3-Ketocarbofuran 3-Methyl-4-nitrophenol (Fenitrothion Metabolite) 4,4-Dicofol (screened as 4,4-Dichlorobenzophenone) 4-Phenylaminophenol Acephate Acetamiprid Acetochlor Acibenzolar-S-Methyl Aclonifen Akton Alachlor Alanycarb Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Aldrin	MED-QL 535, MED-QL 594	AOAC 2007.01 (Modified)

<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Allidochlor Ametryn Aminocarb Amitraz Aramite Atrazine Atrazine Desisopropyl Azaconacole Azamethiphos Azinphos ethyl Azinphos methyl Azoxystrobin Beflubutamid Benalaxyl Bendiocarb Benfluralin Benfuracarb Benodanil Benomyl Benoxacor Bensulide Bentazon (screened as bentazon methyl) Benthiavalicarb Benzoximate (metabolite detected by GCMS) Benzoylprop-Ethyl BHC Alpha BHC Beta BHC Delta BHC Gamma (Lindane) Bifenazate Bifenox Bifenthrin Bioresmethrin Bitertanol Boscalid Bromacil Bromophos Bromophos ethyl Bromopropylate Bromuconazole I & II Bupirimate Buprofezin Butachlor Butafenacil Butocarboxim Butocarboxim Sulfoxide Butralin		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Buturon Butylate Cadusafos Captafol (monitored as THPI metabolite) Captan (monitored as parent and as THPI) Carbanalide Carbaryl Carbendazim Carbetamide Carbofuran Carbophenothion Carbophenothione methyl Carbosulfan Carboxin Carfentrazone-Ethyl Cartap Chinomethionate Chlorantraniliprole Chlorbenside Chlorbromuron Chlorbufam Chlordane-cis Chlordane-trans Chlordene-trans Chlordimeform Chlorethoxyfos Chlorfenapyr Chlorfenson Chlorfenvinphos alpha, beta Chlorfluazuron Chlorflurenol methyl ester Chloridazon Chlormephos Chlornitrofen Chlorobenzilate Chloroneb Chloropropylate Chlorothalonil Chlorotoluron Chloroxuron Chlorpropham Chlorpyrifos Chlorpyrifos oxon Chlorpyrifos-Methyl Chlorthal dimethyl Chlorthiamid Chlorthiophos		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Cinidon Ethyl Clethodim Clodinafop-propargyl Clofentezine Clomazone Cloquintocet-Mexyl Clothianidin Coumaphos Crotoxyphos Crufomate Cyanazine Cyanofenphos Cyanophos Cyazofamid Cycloate Cycloxydim Cycluron Cyfluthrin Cyhalofop Butyl Cyhalothrin Cymoxanil Cypermethrin Cyphenothrin Cyprazine Cyproconazole Cyprodinil Cyromazine DEF Deltamethrin Demeton-O Demeton-S Demeton-S-Methyl Sulfone Desmedipham Desmetryn Dialifos Diallate I II Diazinon Diazinon oxon Dicapthon Dichlobenil Dichlofenthion Dichlofluanid Dichlorvos Diclobutrazol Diclofop-methyl Dicloran Dicrotophos Dieldrin Diethatyl-Ethyl		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Diethofencarb Difenoconazole I II Difenoxuron Diflubenzuron Diflufenican Dimefuron Dimethachlor Dimethametryn Dimethenamid Dimethoate Dimethomorph Dimetilan Dimoxystrobin Diniconazole Dinitramine Dinotefuran Dioxacarb Dioxathion Diphenamid Diphenylamine Dipropetryn Disulfoton Disulfoton Sulfone Disulfoton Sulfoxide Diuron Doramectin Edifenfos Endosulfan Alpha Endosulfan Beta Endosulfan Ether Endosulfan sulfate Endrin Endrin Aldehyde Endrin Ketone EPN Epoconazole Eprinomectin EPTC Etaconazole I II Ethafluralin Ethidimuron Ethiofencarb Ethiofencarb Sulfone Ethiofencarb Sulfoxide Ethiolate Ethion Ethiprole Ethofumesate Ethoprophos		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Ethoxyquin Etofenprox Etoxazole Etridiazole Etrimfos Famfur Fenamidone Fenamiphos Fenamiphos Sulfone Fenamiphos Sulfoxide Fenarimol Fenazaquin Fenbuconazole Fenchlorphos Fenchlorphos Oxon Fenfuram Fenhexamid Fenitrothion Fenitrothion-oxon Fenobucarb Fenothiocarb Fenoxaprop ethyl ester Fenoxycarb Fempiclonil Fenpropathrin Fenpropimorph Fenpyroximate Fenson Fensulfothion Fenthion Fenuron Fenvalerate (includes Esfenvalerate) Fipronil Fipronil Desulfinyl Fipronil Sulfide Fipronil Sulfone Flamprop Methyl Flamprop-isopropyl Flonicamid Fluazafop-P-butyl Fluchloralin Flucythrinate Fludioxonil Flufenacet Flufenoxuron Fluometuron Fluorochloridone I II Fluoroglycofen-ethyl Fluoxastrobin		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Fluquinconazole Fluridone Fluroxypyr-meptyl Flurtamone Flusilazole Flutolanil Flutriafol Fluvalinate-tau Folpet Fomesafen Fonofos Forchlorfenuron Fosthiazate Fuberidazole Furalaxyl Furathiocarb Halfenprox Halofenozide Haloxypop-2-ethoxyethyl Haloxypop-methyl Heptachlor Heptachlor epoxide Heptenophos Hexachlorobenzene Hexaconazole Hexaflumuron Hexazinone Hexythiazox Hydramethylnon Hydroprene Imazalil Imazamethabenz methyl ester Imidacloprid Indoxacarb Iodofenphos Ipconazole Iprobenfos Iprodione Iprovalicarb Isazophos Isocarbamid Isofenphos Isoproc carb Isopropalin Isoprothiolane Isoproturon Isoxaben Isoxadifen-Ethyl Isoxaflutole		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Isoxathion Kresoxim Methyl Lactofen Leptophos Linuron Lufenuron Malaoxon Malathion Mandipropamid Mefanacet Mefenpyr-diethyl Mepanipyrim Mephosfolan Mepronil Merphos Metalaxyl Metazachlor Metconazole Methabenzthiazuron Methacrifos Methamidophos Methfuroxam Methidathion Methiocarb Methomyl Methoprotryne Methoxychlor Methoxyfenozide Methyl Paraoxon Metobromuron Metolachlor Metolcarb Metoxuron Metrafenone Metribuzin Mevinphos Mexacarbate MGK 264 Mirex Molinate Monocrotophos Monolinuron Monuron Myclobutanil N,N-Diallyl dichloroacetamide (Dichlormid) Naled (screened as Dichlorvos) Naphthaleneacetamide Napropamide Neburon		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Nitempyram Nitralin Nitrapyrin Nitrofen Nitrofluorfen Nonachlor-cis Nonachlor-trans Norea Norflurazon Novaluron Nuarimol o,p'-DDD o,p'-DDE o,p'-DDT Omethoate Oxadiazon Oxadixyl Oxamyl Oxycarboxin Oxydemeton-methyl Oxyfluorfen p,p'-DDD p,p'-DDE p,p'-DDT p,p-Methoxychlor olefin Paclobutrazol Paraoxon Parathion Parathion methyl PCB 153 PCB 18 PCB 52 Pebulate Penconazole Pencycuron Pendimethalin Pentachloroaniline Pentachloroanisole Pentachlorobenzene Pentachlorobenzonitrile Pentachloronitrobenzene Pentachlorothioanisole Permethrin Perthane Phenmedipham Phenothrin Phenthoate Phorate Phorate oxon		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Phorate Sulfone Phorate Sulfoxide Phosalone Phosmet Phosmet Oxon Phosphamidon Phoxim Picolinafen Picoxystrobin Pinoxaden Piperalin Piperonyl Butoxide Piperophos Pirimicarb Pirimiphos-ethyl Pirimiphos-methyl Prallethrin Pretilachlor Prochloraz Procyazine Procymidone Profenofos Profluralin Promecarb Prometon Prometryn Propachlor Propanil Propaquizafop Propargite Propazine Propetamphos Propham Propiconazole Propoxur Propyzamide Prosulfocarb Prothiofos Prothoate Pymetrozine Pyracarbolid Pyraclofos Pyraclostrobin Pyrflufen Ethyl Pyrazophos Pyridaben Pyridaphenthion Pyrifenox Pyrimethanil		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Pyriproxifen Quinalphos Quinoclozine Quinoxifen Quizalofop-ethyl Resmethrin Rotenone S-Bioallethrin I II Schradan Sebuthylazine Sebuthylazine-Desethyl Secbumeton Sethoxydim Siduron Silthiofam Simazine Simetryn Spinetoram Spinosad A Spinosad D Spirodiclofen Spiromefesin Sulfallate Sulfenone Sulfotep Sulprofos Sulprofos Sulfoxide TCMTB Tebuconazole Tebufenozide Tebufenpyrad Tebupirimfos Tebutam Tebuthiuron Tecnazene Teflubenzuron Tefluthrin-cis Temephos TEPP Tepraloxydim Terbacil Terbufos Terbufos Sulfone Terbufos Sulfoxide Terbumeton Terbuthylazine Terbuthylazine Desethyl Terbutryn Tetrachlorvinphos		



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Tetraconazole Tetradifon Tetramethrin Tetrasul Thiabendazole Thiacloprid Thiazopyr Thidiazuron Thiobencarb Thiodicarb Thiofanox Thiofanox Sulfone Thiofanox Sulfoxide Thionazin Thiophanate methyl Tolclofos-methyl Tolyfluanid Tralkoxidym Tralomethrin (screened as Deltamethrin) Transfluthrin Triadimefon Triadimenol Triallate Triazamate Triazophos Trichlorfon Trichloronat Tricyclazole Tridiphane Trietazine Trifloxystrobin Triflumizole Trifluralin Tris-(1,3-dichloroisopropyl) phosphate Triticonazole Tycor Uniconazole-P Vernolate Vinclozolin Zoxamide		
Sugars by UPLC/HPLC: Galactose Fructose Glucose Sucrose Maltose Lactose Total Sugars (sum of components)	MED-QL 590	AOAC 977.20 (Modified)



<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Vitamins A & E by HPLC	MED-QL 551	AOAC 2001.13; AACC 86-06
Vitamin D by UPLC MS/MS	MED-QL 587	AOAC 2011.12
ICP		
Mercury in Solids and Solutions by Thermal Decomposition, Amalgamation, and Atomic Absorption Spectrophotometry	MED-QL 574	EPA Method 7473
Minerals by ICP (Ca, Cu, Fe, Mg, Mn, P, K, Na, Zn)	MED-QL 591	AOAC 975.03, 985.01, 984.27, 2011.14
Trace Mineral Analysis in Foods, Beverages, and Nutraceuticals by Microwave Digestion and ICP MS: Aluminum Antimony Arsenic Barium Boron Cadmium Chromium Cobalt Lead Molybdenum Nickel Selenium Tin	MED-QL 588	AOAC 993.14 (Modified)
Spectrophotometric		
Beta Glucan by Spectrophotometry	MED-QL 561	AOAC 995.16
Vitamin B1 & B2 by Fluorometric Analysis	MED-QL 548	AOAC 981.15, 942.23, 970.65 (Modified)
Vitamin C by Fluorometric Analysis	MED-QL 552	AOAC 967.22, 984.26 (Modified)
Turbidimetric Microbiological Assay		
Gluten by ELISA	MED-QL 563	AOAC 2012.01 (Modified), 2018.15 (Modified)
Niacin	MED-QL 524	AOAC 960.46, 944.13
Pantothenic Acid	MED-QL 527	AOAC 960.46, 945.74, 992.07

<u>Test Type/Technology</u>	<u>Internal Test Method(s)</u>	<u>Standard Test Method(s)</u>
Total Folates (As Folic Acid)	MED-QL 603	AOAC 944.12 (Modified); AACC 86-47 (Modified)
Vitamin B6	MED-QL 549	AOAC 960.46, 961.15 (Modified), 985.32 (Modified)
Vitamin B12	MED-QL 565	AOAC 952.20, 986.23



Accredited Laboratory

A2LA has accredited

MEDALLION LABS

Golden Valley, MN

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R204 - *Specific Requirements - Food and Pharmaceutical Testing Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 3rd day of October 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2769.01
Valid to June 30, 2025

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.