



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CERTIFIED LABORATORIES  
65 Marcus Drive,  
Melville, NY 11747  
Amanda Farrens Phone: 402-906-9609  
Mandi.Farrens@FSNS.com

CHEMICAL

Valid To: December 31, 2027

Certificate Number: 1698.29

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with A2LA's R204 – *Specific Requirements – AOAC Laboratory Accreditation Program*, containing the 2024 “*AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food, Dietary Supplements, Pharmaceuticals, and Cannabis*”), accreditation is granted to this laboratory to perform the following tests on food and food-related products:

Test / Technology(ies)	Method SOP(s)	Reference Method(s)
Aflatoxin - Fluorometric	11965	Vicam AflaTest Manual
Allergens – ELISA (gluten, peanut, egg, milk)	9962	AOAC 2012.01 (gluten), AOAC-RI 112102 (peanut) RIDASCREEN R6402 (egg), RIDASCREEN R4652 (milk)
Artificial Colors - TLC	11957, 164450	AOAC 988.13 (Young), JAOAC 46(6) 1963 (Graichen)
Calories - Calculation	11975	21 CFR 101.9 (c)(1)(i)(B)
Carbohydrates - Calculation	11975	21 CFR 101.9 (c)(6)
Chloramphenicol - Immunoassay	9949	RIDASCREEN R1511
Cholesterol - GC	9934	AOAC 994.10
Curcumin Content of Turmeric Spice and Oleoresins - Spectrophotometric	59150	ASTA 18.0
Decomposition of Frozen Seafood - Organoleptic	13354, 13355, 13356	FDA Food Compliance Program Guidance Manual 7303.844, 540.370, 540.525
Dietary Fiber (Total, Insoluble, and Soluble) - Gravimetric	7382	AOAC 991.43
Ethylene Chlorohydrin (ECH) - GC	12261	ASTA 23.3
Ethylene Oxide (ETO) - GC	12262	ASTA 23.2
Extractable Color in Capsicums and their Oleoresins - Spectrophotometric	11922	ASTA 20.1
Fat by Automated Ether Extraction - Gravimetric	7357	AOAC 960.39, 991.36

<b>Test / Technology(ies)</b>	<b>Method SOP(s)</b>	<b>Reference Method(s)</b>
Fat by Mojonnier Acid and Alkaline Hydrolysis - Gravimetric	9911	AOAC 922.06, 933.05, 935.39, 950.54
Fatty Acid Profile, including Trans-fat - GC	9935	AOCS Ce 1J-07
Filth (Light) - Microscopy	108679	AOAC 970.66
Filth (Macroanalytical) - Macroscopy	108682	ASTA 14.1, 14.2
Fluoroquinolones - HPLC, LC/MS/MS	12276	FDA LIB 4562, JAOAC 88.4
Foreign Matter Identification - Microscopy, FTIR	12244	AOAC 945.75, 960.51, ASTA 14.0, 14.1
Histamine - Fluorometric	11960	AOAC 977.13
Malachite Green, Gentian (Crystal) Violet, Leucomalachite Green, Leucogentian (Crystal) Violet - LC/MS/MS	12275	AOAC 2012.25
Mebendazole in Eel - LC/MS/MS	37344	FDA LIB 4562
Melamine, Cyanuric Acid - LC/MS/MS	7363	FDA LIB 4422
Metals - ICP-MS (Ag, Al, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, Sb, Se, Sn, Sr, Tl, V, Zn)	7368	FDA EAM Section 4.7
Metals - ICP-OES (Al, Ca, Cu, Fe, K, Mg, Mn, Na, Ti, V, Zn)	7368	FDA EAM Section 4.4
Moisture - Distillation	11921	ASTA 2.0
Moisture Convection Drying Oven - Gravimetric	9916	AOAC 950.46
Moisture Vacuum Drying Oven - Gravimetric	9916	AOAC 926.08
Net Contents - Frozen Seafood - Gravimetry	13357	AOAC 963.18
Nitrite - Colorimetric	11959	AOAC 973.31
Nitrofurans - LC-MS/MS	12278	FDA LIB 4482
Oil Soluble Dyes in Capsicum and Turmeric Samples and Products - HPLC, LC/MS/MS	9955	ASTA 28.0, 29.0
Patulin in Apple Juice - UPLC	37347	AOAC 995.10
<sup>1</sup> Pesticides - GC-FPD, LC/MS/MS, GC/MS/MS	7384	AOAC 2007.01, BS EN 15662
pH - Potentiometric	9923	AOAC 981.12
Piperine Content of Black and White Pepper, their Oleoresins, and Soluble Pepper Seasoning - Spectrophotometric	11963	ASTA 12.1
Protein - Kjeldahl	7359	AOAC 981.10, 991.20
Pungency of Capsicum and their Oleoresins - UPLC	9977	ASTA 21.3
Salt - Titration	7360	AOAC 935.43, 935.47
Steam Volatile Oil in Cassia and other Spices - Distillation	36274	ASTA 5.2, 16.0
Sugars - IC	12267	AOAC 996.04
Sulfites - Distillation / Titration	11943	AOAC 990.28
Sulfonamides in Eel, Shrimp, and Tilapia – LC/MS/MS	37345, 37350	FDA LIB 4508
Titratable Acidity - Titration	9940	AOAC 930.35, 935.57, 942.15

Test / Technology(ies)	Method SOP(s)	Reference Method(s)
Total Ash and Acid Insoluble Ash - Gravimetric	9921, 109166	AOAC 920.153, 935.42, ASTA 3.0, 4.0
Vanillin - Spectrophotometric	11962	AOAC 966.12
Vitamin A - HPLC	9936	2001.13
Vitamin C - UPLC	9931	AOAC 2012.22
Vitamin D - LC/MS/MS	9965	AOAC 2011.11
Water Activity - Hygrometric	9924	AOAC 978.18

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory's compliance with A2LA's R204 – *Specific Requirements – AOAC Laboratory Accreditation Program*, containing the 2024 “*AOAC International Guidelines for Laboratories Performing Microbiological and Chemical Analyses of Food, Dietary Supplements, Pharmaceuticals, and Cannabis*”), as well as (including an assessment of the laboratory's compliance with the FDA Laboratory Accreditation for Analyses of Foods, contained in the FDA Document Number 2021-25716) accreditation is granted to this laboratory to perform the following tests and sampling on the matrices listed below:

Test / Technology(ies)	Method SOP(s)	Matrix	Reference Method(s)
Artificial Colors - TLC	11957, 164450	Candy, Baked Goods	AOAC 988.13 (Young), AOAC 46(6) 1963 (Graichen)
Chloramphenicol - Immunoassay	9949	Crab, Crawfish, Frog Legs, Shrimp	RIDASCREEN R1511
Decomposition - Organoleptic	13354, 13355, 13356	Frozen Seafood	FDA Food Compliance Program Guidance Manual 7303.844, 540.370, 540.525
Filth (Light) - Microscopy	108679	Fruits, Seafood, Vegetables, Grains, Spices, Tamarind	AOAC 970.66
Filth (Macroanalytical) - Macroscopy	108682	Spices	ASTA 14.1, 14.2
Fluoroquinolones - HPLC, LC/MS/MS	12276	Eel	LIB4562, JAOAC 88.4
Histamine - Fluorometric	11960	Tuna	AOAC 977.13
Malachite Green, Gentian (Crystal) Violet, Leucomalachite Green, Leucogentian (Crystal) Violet - LC/MS/MS	12275	Dace, Eel	AOAC 2012.25
Mebendazole - LC/MS/MS	37344	Eel	FDA LIB 4562
Melamine & Cyanuric Acid - LC/MS/MS	7363	Dry legume Vegetable/Pulses, Dairy products, Milk, Cereal Grain and Products thereof, Other Fruit	FDA LIB 4422
Metals - ICP-MS (As, Cd, Hg, Pb)	7368	Foods	FDA EAM Section 4.7
Net Contents - Gravimetry	13357	Frozen Seafood	AOAC 963.18
Nitrofurans - LC-MS/MS	12278	Shrimp, Frog Legs	FDA LIB 4482
Patulin - UPLC	37347	Apple Juice	AOAC 995.10
<sup>2</sup> Pesticides - LC/MS/MS, GC/MS/MS	7384	High Moisture Produce (Grapes, Lettuce, Oranges), Sesame Seeds	AOAC 2007.01, BS EN 15662

<b>Test / Technology(ies)</b>	<b>Method SOP(s)</b>	<b>Matrix</b>	<b>Reference Method(s)</b>
pH – Potentiometric (LACF)	9923	Foods	AOAC 981.12
Sulfites - Distillation / Titration	11943	Non-Allium Foods	AOAC 990.28
Sulfonamides - LC/MS/MS	37345, 37350	Eel, Shrimp, Tilapia	FDA LIB 4508
Water Activity – Hygrometric (LACF)	9924	Foods	AOAC 978.18



## <sup>1</sup>List of Pesticides

2,3,5,6-Tetrachloroaniline	3,4 dichloroaniline	3-Hydroxycarbofuran
Abamectin	Acephate	Acetamiprid
Acibenzolar S Methyl	Acrinathrin	Alanycarb
Aldecarb Sulfoxide	Aldrin	Allethrin
Ametoctradin	Ametryn	Aminocarb
Amitraz	Atrazine	Azadirachtin
Azoxystrobin	BAM (2,6 dichlorobenzamide)	Benalaxyl
Bendiocarb	Benfluralin	Bentazon
BHC-alpha	BHC-beta	BHC-delta
BHC-gamma (Lindane)	Bifenazate	Bifenthrin
Bitertanol	Boscalid	Bromopropylate
Bromuconazole I	Bromuconazole II	Bupirimate
Buprofezin	Butaoxycarboxim	Butocarboxim
Butralin	Butylate (Sutan)	Cadusafos
Captan	Carbaryl	Carbendazim
Carbetamide	Carbofuran	Carbosulfan
Chlorantraniliprole	Chlordane-cis	Chlordane-trans (g)
Chlordene	Chlordimeform	Chlorfenapyr
Chlorfenvinphos	Chlorobenzilate	Chloroneb
Chlorothalonil	Chlorpropham	Chlorpyrifos (Dursban)
Chlorpyrifos-methyl	Chlorthal (Dacthal, DCPA)	Chlorthiophos
Clethodim	Clofentizine	Clothianidin
Coumaphos	Cyanazine	Cyanofenphos
Cyantraniliprole	Cyazofamid	Cycloxydim
Cyflufenamide	Cyflumetofen	Cyfluthrin
Cyhalothrin-Lambda	Cymiazole	Cymoxanil
Cypermethrin	Cyproconazole	Cyprodinil
Cyromazine	Dazomet	DDE-p,p'
DDT-o,p'	DDT-p,p'	Deltamethrin
Desmedipham	Diallate	Diazinon
Dichlobenil (2,6 Dichlorobenzonitrile)	Dichlorvos	Dicloran (Botran)
Dicofol	Dicrotophos	Dieldrin
Diethofencarb	Difenoconazole	Dimethachlor
Dimethoate	Dimethomorph I and II	Dimoxystrobin
Diniconazole	Dinitramine	Dinocap
Dinotefuran	Dioxacarb	Diphenamid
Diphenylamine	Disulfoton	Diuron
Edifenphos	Endosulfan I	Endosulfan II
Endosulfan Sulfate	Endrin I-IV	EPN
Epoxiconazole	EPTC (a thiocarbamate)	Esfenvalerate
Etaconazol 1 and 2	Ethaboxam	Ethafluralin
Ethephon	Ethiofencarb	Ethion
Ethiprole	Ethirimol	Ethoprophos (Ethoprop)
Ethoxyquin	Etofenprox	Etoxazole
Etridiazole	Famoxadone	Fenamidone
Fenamiphos	Fenarimol	Fenazaquin
Fenbuconazole	Fenbutanin oxide	Fenhexamide
Fenitrothion	Fenobucarb	Fenoxycarb
Fenpropathrin	Fenpropimorph	Fenpyroximate
Fenthion	Fenuron	Fenvalerate-a and b
Fipronil	Flonicamid	Fluazifop butyl



Flubendiamide	Fluchloralin	Flucythrinate a and b
Fludioxonil	Flufenoxuron	Fluometuron
Fluopicolide	Fluopyram	Fluoxastrobin
Fluquinconazole	Flusilazole	Flutolanil
Flutriafol	Fluvalinate a and b	Fluxapyroxad
Flypyradifurone	Folpet	Fonofos (Dyfonate)
Forchlorfenuron	Formetanate	Fosetyl Al
Fuberidazole	Furathiocarb	Halofenozide
Halosulfuron-methyl	HCB (hexachlorobenzene)	Heptachlor
Heptachlor Epoxide	Heptenophos	Hexaconazole
Hexazinone	Hexithiazox	Imazalil
Imidacloprid	Indoxacarb	Iprodione
Iprovalicarb	Isocarbamid	Isocarbophos
Isofenphos	Isoprocarb	Isoprothiolane
Isoproturon	Isopyrazam	Kresoxim-methyl
Lactofen	Lenacil	Linuron
Lufenuron a and b	Malaoxon	Malathion
Manidipropamid	Mepanipyrim	Mepronil
Metaconazole	Metalaxyl	Metalumizone
Methamidophos	Methidathion	Methiocarb
Methomyl	Methoxychlor	Methoxychlor-p,p
Methoxyfenozide	Metobromunon	Metolachlor
Metrafenone	Metribuzin	Meviphos
MGK-264	Mirex	Molinate
Monocrotophos	Monolinuron	Moxidectin
Myclobutanil	Nicotine	Nitrothal-isopropyl
Nonachlor-cis	Nonachlor-trans	Novaluron
Nuarimol (trimidal)	Omethoate	Oxadiazon
Oxadixyl	Oxamyl	Oxyfluorfen
Paclobutrazole	Paraoxon	Paraoxon Methyl
Parathion	Parathion Methyl	PCNB (Pentachlornitrobenzene)
Penconazole	Pencycaron	Pendimethalin
Pentachloaniline (PCA)	Pentachlorobenzene (PCB)	Penthiopyrad
Pentochlorobenzonitrile	Permethrin-cis and trans	Phenmedipham
Phenothrin	Phorate	Phorate Sulfone
Phosmet	Picoxystrobin	Piperonylbutoxide
Pirimicarb	Pirimiphos-methyl	Prochloraz
Procymidone	Profenofos	Profluralin
Prometon	Prometryne	Propachlor
Propamocarb	Propanil	Propargite-a and b
Propham	Propiconazole (Tilt)	Propoxur
Propyzamide (Pronamide)	Prothiofos (Tokuthion)	Pymetrozine
Pyracarbolid	Pyraclostrobin	Pyraflufen-ethyl
Pyrazophos	Pyrethrins	Pyridaben
Pyridaphenthion	Pyrimethanil	Pyriproxifen
Quinalphos	Quinoxyfen	Rotenone
Siduron A	Siduron B	Simazine
Simetryn	Spinetoram	Spinosyn A
Spinosyn D	Spirodiclofen	Spiromesifen
Spirotetramate	Spiroxamine	Sulfotep
Sulfoxaflor	Sulprofos (Bolstar)	Tebuconazole

Tebufenozide	Tebufenpyrad	Tebuthiuron
Tecnazene (2,3,5,6-Tetrachloronitrobenzene)	Teflubenzuron	Tefluthrin
Temephos (Abate)	Terbufos	Terbuthylazine
Tetrachlorvinphos	Tetraconazole	Tetradifon
Tetramethrin	Thiabendazole	Thiacloprid
Thiamethoxam	Thidiazuron	Thiophanate methyl
Tolclofos-methyl	Triadimefon	Triadimenol
Triallate	Triazophos	Tribufos (DEF 6)
Trichlorfon	Tricyclazole	Trifloxystrobin
Triflumizole	Triflumuron	Trifluralin
Triforine	Vinclozolin	Zoxamide

## <sup>2</sup>List of Pesticides

2, 4, 5T	2, 4, 5-TP	2, 4-D
2, 4-DB	4-CPA	Acephate
Acetamiprid	Aclonifen	Acrinathrin
Aldicarb	Aldicarb-Sulfon	Aldicarb-Sulfoxid
Aldrin	Avermectin B1a	Azinphos-Ethyl
Azinphos-Methyl	Azoxystrobin	Benalaxyl
Bendiocarb	Bentazone	Bifenox
Bifenthrin	Binapacryl	Bitertanol
Boscalid	Bromophos	Bromophos-Ethyl
Bromopropylate	Bromoxynil	Bromuconazole
Bupirimate	Buprofezin	Butocarboxim
Captafol	Captan	Carbaryl
Carbendazim	Carbofuran	Carboxin
Chinomethionat	Chlorfenapyr	Chlorfenson
Chlorfenvinphos	Chloridazon	Chlorothalonil
Chlorpropham	Chlorpyrifos	Chlorpyrifos-Methyl
Chlozolate	Cinosulfuron b	Clofentezine
Clothianidin	Cyanofenphos	Cyazofamid
Cycloxydim	Cyfluthrin (incl. beta-)	Cyhalothrin, lambda-
Cymoxanil	Cypermethrin	Cyproconazole
Cyprodinil	Cyromazine	DDD, o, p-
DDD, p, p-	DDE, o, p-	DDE, p, p-
DDT, o, p-	DDT, p, p-	Deltamethrin
Demeton-S-Methyl	Demeton-S-Methylsulfon	Demeton-S-Methylsulfoxid
Diazinon	Dicamba	Dichlobenil
Dichlofenthion	Dichlofluanid	Dichlorprop (incl. Dichlorprop-P)
Dichlorvos	Dicloran	Dicofol
Dicrotophos	Dieldrin	Diethofencarb
Difenoconazole	Diiflubenzuron	Diiflufenican
Dimethachlor	Dimethoate	Dimethomorph
Diniconazole	Dioxathion	Diphenylamine
Disulfoton	Ditalimfos	Endosulfan, alpha-
Endosulfan, beta-	Endosulfansulfate	EPN
Epoconazole	Ethiofencarb	Ethion
Ethofumesate	Ethoprophos	Etofenprox
Etridiazole	Etrimfos	Famoxadone
Fenamiphos	Fenarimol	Fenazaquin
Fenbuconazole	Fenchlorphos	Fenhexamid

**<sup>2</sup>List of Pesticides**

Fenitrothion	Fenoxaprop-P	Fenoxycarb
Fenpropathrin	Fenpropidin	Fenpropimorph
Fenpyroximate	Fenson	Fenthion
Fenthion-Sulfon	FenthionSulfoxide	Fenvalerate/Esfenvalerate (sum)
Fluazifop	Flucythrinate	Fludioxonil
Flufenacet	Flufenoxuron	Fluquinconazole
Fluroxypyr	Flurtamone	Flusilazole
Fluvalinate	Folpet	Fomesafen
Fonofos	Haloxypop	HCH, alpha-
HCH, beta-	HCH, gamma-	Heptachlor
Heptenophos	Hexachlorobenzene	Hexaconazole
Hexaflumuron	Hexythiazox	Imazalil
Imazapyr	Imazaquin	Imazethapyr
Imazosulfuron b	Imidacloprid	Indoxacarb
Ioxynil	Iprodione	Iprovalicarb
Isofenphos	Isoproturon	Kresoxim-Methyl
Linuron	Lufenuron	Malaoxon
Malathion	MCPA	MCPB
MCPP	Mecarbam	Mepanipyrim
Mepronil	Metalaxyl	Metamitron
Metazachlor	Methamidophos	Methidathion
Methiocarb	Methomyl	Methoxychlor
Methoxyfenozide	Metobromuron	Metolachlor
Metosulam	Metribuzin	Metsulfuron-Methyl b
Mevinphos	Monocrotophos	Myclobutanil
Naphthoxyacetic acid, 2-	Nuarimol	Omethoate
Orthophenylphenol	Oxadixyl	Oxamyl
Paclobutrazol	Paraoxon	Paraoxon-Methyl
Parathion	Parathion-Methyl	Penconazole
Pencycuron	Pendimethalin	Permethrin
Phorate	Phosalone	Phosmet
Phosphamidon	Picoxystrobin	Piperonyl butoxide
Pirimicarb	Pirimiphos-Ethyl	Pirimiphos-Methyl
Prochloraz	Procymidone	Profenofos
Profluralin	Promecarb	Prometryn
Propamocarb	Propargite	Propham
Propiconazole	Propoxur	Propyzamide
Prosulfuron b	Prothiofos	Pymetrozine
Pyraclostrobin	Pyrazophos	Pyridaben
Pyridaphenthion	Pyrifenox	Pyrimethanil
Pyriproxyfen	Quinalphos	Quinmeracc
Quinoxyfen	Quintozene	Simazine
Spinosyn A	Spinosyn D	Spiroxamine
Sulfotep	Tebuconazole	Tebufozide
Tebufenpyrad	Tecnazene	Teflubenzuron
Terbacil	Terbufos	Terbutylazine
Terbutryn	Tetrachlorvinphos	Tetraconazole
Tetradifon	Tetramethrin	Thiabendazole
Thiacloprid	Thiamethoxam	Thifensulfuron-Methyl b
Thiodicarb	Thiofanox	Thiometon
Thiophanate-Methyl	Tolclofos-Methyl	Tolyfluanid

**<sup>2</sup>List of Pesticides**

Triadimefon	Triadimenol	Tri-Allate
Triazophos	Triclopyr	Trifloxystrobin
Triflumizole	Triflumuron	Trifluralin
Triforine	Trimethacarb	Vamidotion
Vinclozolin		





# Accredited Laboratory

A2LA has accredited

## CERTIFIED LABORATORIES

Melville, NY

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 – AOAC Laboratory Accreditation Program* as well as the requirements of A2LA R258 – *Specific Requirements – FDA Laboratory Accreditation for Analyses of Foods (LAAF) 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 26<sup>th</sup> day of February 2026.

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

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1698.29  
Valid to December 31, 2027  
Revised 03/02/2026

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