



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MIDWEST LABORATORIES, INC.  
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CHEMICAL

Valid To: August 31, 2024

Certificate Number: 2853.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on foods (human, pet, and animal):

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Allergens (Gluten, Gliadin, Competitive Gliadin, Almond, Milk, Peanut, Pecan, Walnut, Macadamia, Sesame, Crustacean, Mustard, Lupine, Egg, Soy, Hazelnut, Coconut, Fish) <sup>5</sup>	ELISA	FO 064
Amino Acid Profile (Cysteine and Methionine) <sup>2,3</sup>	HPLC-PCD	HPLC 019
Ammoniacal Nitrogen in Fertilizers <sup>2</sup>	Titration	WC 015
Antibiotics (Erythromycin, Oxytetracycline, Tetracycline, Chlorotetracycline, Doxycycline, Virginiamycin, Penicillin, and Tylosin) <sup>2</sup>	LC/MS/MS	LCMS 011
Ash Determination in Feeds <sup>4</sup>	Gravimetric	FD 019
Ash Determination in Foods <sup>5</sup>	Gravimetric	FO 022
Available Phosphorus (Direct) in Fertilizers <sup>2,1</sup>	ICP-AES or Spectrophotometer (depending on level)	WC 089, ME 092

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Available Phosphorus (Indirect) in Fertilizers <sup>2,1</sup>	ICP-AES	WC 010, ME 026
Chloride <sup>4</sup>	Titration	FD 010
Crude Fiber <sup>4</sup>	Gravimetric	FD 039
Fat (Acid Hydrolysis) <sup>4</sup>	Gravimetric	FD 027
Fat (Acid Hydrolysis) <sup>5</sup>	Gravimetric	FO 008
Fat (Base Hydrolysis) <sup>5</sup>	Gravimetric	FO 009
Fat (Ether Extraction) <sup>4</sup>	Gravimetric	FD 026
Fat (Petroleum Ether Extraction) <sup>5</sup>	Gravimetric	FO 007
Fat Soluble Vitamins (Vitamin D3 and E) <sup>2,3</sup>	LC/MS/MS	HPLC 034
Fatty Acid Profile (Saturated, Polyunsaturated, and Mono-unsaturated) <sup>2,3</sup>	GC-FAMES	HPLC 004, 008
Fiber (Acid Detergent) <sup>4</sup>	Gravimetric	FD 021
Fiber (Neutral Detergent) <sup>4</sup>	Gravimetric	FD 022
Genetically Modified Organisms (GMO) <sup>5</sup>	Digital Droplet PCR	FO 065
Glycoalkaloids in Potato Products <sup>2</sup>	LC/MS/MS	HPLC 044
Glyphosate and Metabolites <sup>2</sup>	LC/MS/MS	LCMS 028
HPLC-UV – Cannabinoid Potency in Plant, Oil, and Edible Materials <sup>2,7</sup>	HPLC-UV	HPLC 059
Lysine <sup>2,3</sup>	LC/MS/MS	HPLC 024
Meat Speciation (Sheep, Chicken, Goat, Beef, Pork, Turkey, Horse, Alligator, Bison, Kangaroo, Duck, Venison, Rabbit, Salmon) <sup>5</sup>	Digital Droplet PCR	FO 073
Melamine, Cyanuric Acid, Ammeline, and Ammelide <sup>2</sup>	LC/MS/MS	LCMS 018

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Mercury (Hg) <sup>1</sup>	CVAA	ME 037, 067
Metals and Minerals in Feed/Animal Foods (Ca, P, Mg, Fe, Na, S, K, Mn, Cu, Zn) <sup>1</sup>	ICP-AES	ME 029, 069
Metals and Minerals in Foods (Ca, Mg, Fe, K, Na) <sup>1,6</sup>	ICP-AES	ME 027, 077
Metals in Feed/Animal Foods (As, Sb, Cd, Pb, Se) <sup>1</sup>	ICP-AES	ME 013, 042
Metals in Foods (As, Pb, Cd, Hg) <sup>6</sup>	ICP-MS	ME 080, 081
Metals in Premixes (Se) <sup>1</sup>	ICP-AES	ME 077, 042
Moisture <sup>5</sup>	Gravimetric-Vacuum Oven	FO 002
Moisture Determination in Feeds <sup>4</sup>	Gravimetric	FD 016
Moisture Determination in Feeds <sup>4</sup>	Gravimetric-Vacuum Oven	FD 018
Moisture in Meat <sup>5</sup>	Gravimetric-Convection Oven	FO 001
Moisture, Loss on Ignition, and Ash in Fertilizers <sup>2</sup>	Gravimetric	WC 060
Mycotoxins (Aflatoxin B1, B2, G1, G2, Zearalenone, T2, Ochratoxin, DON, Fumonisin B1, B2, B3) <sup>2</sup>	LC/MS/MS	LCMS 020
Nitrates in Fertilizers <sup>4,1</sup>	Segmented Flow Analysis	WC 032, EN 004
Nitrogen and Carbon in Fertilizers <sup>2,4</sup>	Combustion	WC 111, 112
Non-Protein Nitrogen in Fertilizers <sup>2</sup>	Titration	WC 035
Pentobarbital in Pet Food <sup>2</sup>	GC/MS/MS	HPLC 053
Pesticides <sup>2</sup> : (E)-Chlorfenvinphos (Z)-Chlorfenvinphos 2,4'-Methoxychlor 2-Phenylphenol 3,4'-Dichloroaniline 4,4'-Methoxychlor olefin Acephate Acetochlor	GC/MS/MS	LCMS 021

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Acrinathrin Alachlor Aldrin Allidochlor alpha-BHC Ametryn Atrazine Azinphos-ethyl Azinphos-methyl Benfluralin beta-BHC Bifenthrin Bromacil (E)-Bromfenvinphos (Z)-Bromfenvinphos Bromfenvinphos-methyl Bromophos Bromophos-ethyl Bromopropylate Bupirimate Butachlor Butylate Captan Carbaryl Carbophenothion Carfentrazone-ethyl Chlorbenside Chlorfenapyr Chlorfenson Chloroneb Chlorothalonil Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Chlorthiophos-1 Chlorthiophos-2 Chlorthiophos-3 Chlozolate cis-Chlordane cis-Nonachlor Clomazone Coumaphos Cyanazine Cycloate Cyfluthrin-1 Cyfluthrin (sum of isomers 2,3,4) Cypermethrin-1 Cypermethrin (sum of isomers 2,3,4)		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Cyprodinil Deisopropylatrazine delta-BHC Deltamethrin-2 Demeton-O Demeton-S Desethylatrazine Di-allate-1 Di-allate-2 Diazinon Dichlobenil Dichlofluanid Dichlorvos Dieldrin Dimethachlor Dimethenamid Dimethoate Diphenamid Diphenylamine Edifenphos Endosulfan ether Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin ketone EPN EPTC (Eptam) Ethalfluralin Ethion Ethoprophos Ethylan Etofenprox Etridiazole Fenamiphos Fenarimol Fenchlorphos Fenitrothion Fenpropathrin Fenson Fensulfothion Fenthion Fenvalerate-1 Fenvalerate-2 Fipronil Fluazifop-P-butyl Fluchloralin Flucythrinate-1 Flucythrinate-2		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Fludioxonil Fluquinconazole Fluridone Flusilazole Flutolanil Flutriafol Folpet Fonofos gamma-BHC Heptachlor Cis-Heptachlor Hexachlorobenzene Hexazinone Imazalil Iodofenphos Iprodione Isazofos Isodrin Isofenphos Isopropalin lambda-Cyhalothrin Lenacil Leptophos Linuron Malathion Metalaxyl Metazachlor Methacrifos Methamidophos Methiocarb Methoxychlor Methyl Parathion Metolachlor Metribuzin Mevinphos (sum of isomers) MGK-264-1 MGK-264-2 Mirex Myclobutanil N-(2,4-Dimethylphenyl)formamide Naled Nitalin Nitrapyrin Nitrofen Norflurazon o,p'-DDD o,p'-DDE o,p'-DDT/p,p'-DDD (sum of analytes)		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
<p>           Omethoate            Oxadiazon            Oxyfluorfen            p,p'-DDE            Paclobutrazol            Parathion Ethyl            Pebulate            Penconazole            Pendimethalin            Pentachloroaniline            Pentachloroanisole            Pentachlorobenzene            Pentachlorobenzonitrile            Pentachlorothioanisole            Cis-Permethrin            Trans-Permethrin            Phenothrin-1            Phenothrin-2            Phorate            Phosalone            Phosmet            Piperonyl butoxide            Pirimiphos-ethyl            p,p'-DDT            Pretilachlor            Prochloraz            Procymidone            Prodiamine            Profenofos            Profluralin            Prometon            Prometryn            Promiphos methyl            Propachlor            Propanil            Propargite (sum of isomers)            Propazine            Propisochlor            Propyzamide            Prothiofos            Pyraclofos            Pyrazophos            Pyridaben            Pyridaphenthion            Pyrimethanil            Pyriproxyfen            Quinalphos            Quintozene            Resmethrin-1         </p>		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Resmethrin-2  Simazine Sulfotep Sulprofos (Bolstar) tau-Fluvalinate-1 tau-Fluvalinate-2 Tebuconazole Tebufenpyrad Tecnazene Tefluthrin TEPP Terbacil Terbufos Terbutylazine 2,3,5,6-Tetrachloroaniline Tetrachlorvinphos Tetradifon Tetrahydrophthalimide (sum of isomers) Tetramethrin-1 Tetramethrin-2 Thiabendazole Tolclofos-methyl Tolyfluanid trans-Chlordane Transfluthrin trans-Nonachlor Triadimenol-1 Triadimenol-2 Triallate Triazophos Trichloronat Tricyclazole Triflumizole Trifluralin Vinclozolin		
Potassium, High Soluble in Fertilizers <sup>2,1</sup>	ICP-AES	WC 099, ME 026
Protein (Crude) <sup>4</sup>	Combustion	FO 014
Protein (Crude) in Feed/Animal Foods <sup>4</sup>	Combustion	FD 070
Salt-Volhard Method <sup>5</sup>	Titration	FO 026



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Sugar Profile (Glucose, Fructose, Sucrose, Maltose, Lactose) <sup>2,3</sup>	HPLC-RI	HPLC 009
Sulfur in Fertilizers <sup>2,4</sup>	Combustion	WC 065
Taurine <sup>2,3</sup>	LC/MS/MS	HPLC 049
Thyroid Hormone in Pet Foods <sup>2</sup>	LC/MS/MS	LCMS 023
Total Amino Acid Profile (Threonine, Serine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Tyrosine, Phenylalanine, Lysine, Histidine, Arginine) <sup>2,3</sup>	LC/MS/MS	HPLC 048
Total Iodine <sup>6</sup>	ICP-MS	ME 082
Total/Ortho Phosphorus in Fertilizers <sup>2</sup>	Spectrophotometer	WC 004
Total Starch <sup>4</sup>	Glucometer	WC 047
Total, Soluble, and Insoluble Dietary Fiber <sup>5</sup>	Gravimetric	FO 027
Tryptophan <sup>2,3</sup>	LC/MS/MS	HPLC 025
Vitamin A <sup>2,3</sup>	HPLC	HPLC 011
Vitamin B1 (Thiamine) <sup>2,3</sup>	HPLC	HPLC 022
Vitamin C <sup>2,3</sup>	HPLC	HPLC 010
Vitamin D2 & D3 <sup>2,3</sup>	LC/MS/MS	HPLC 064
Vitamin E <sup>2</sup>	HPLC-UV	HPLC 070
Water Soluble Vitamins (Vitamin B2 (Riboflavin), Pantothenic Acid, Vitamin B6 (Pyridoxine), Biotin, Folic Acid, Vitamin B12, Niacin, Nicotinamide, Nicotinic Acid) <sup>2,3</sup>	LC/MS/MS	HPLC 035

<sup>1</sup> Tests performed at Main Building: 13611 B St., Omaha, NE 68144

<sup>2</sup> Tests performed at Grand 7 Building: 13606 C St., Omaha, NE 68144

- <sup>3</sup> Tests performed at C Building: 13626 C St., Omaha, NE 68144
- <sup>4</sup> Tests performed at PoDeBo Building: 13516 C St., Omaha, NE 68144
- <sup>5</sup> Tests performed at AmBr Building: 13535 C St., Omaha, NE 68144
- <sup>6</sup> Tests performed at DEB Building: 13606 B St., Omaha, NE 68144
- <sup>7</sup> Tests performed at B Street 2 Building: 13505 B St., Omaha, NE 68144

Satellite Location  
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<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Crude Fat	Gravimetric	FD 026
Crude Fiber	Gravimetric	FD 039
Minerals in Feeds by ICAP	ICP-AES	ME 029, 069
Moisture/Ash	Thermogravimetric Analyzer	FD 082
Protein by Combustion	Combustion	FD 070





# Accredited Laboratory

A2LA has accredited

## MIDWEST LABORATORIES, INC.

Omaha, NE

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 27<sup>th</sup> day of September 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2853.02  
Valid to August 31, 2024

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