



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) ⁵	ELISA	FO 064
Amino Acid Profile (Cysteine and Methionine) ^{2,3}	HPLC-PCD	HPLC 019
Ammoniacal Nitrogen in Fertilizers ²	Titration	WC 015
Antibiotics (Erythromycin, Oxytetracycline, Tetracycline, Chlorotetracycline, Doxycycline, Virginiamycin, Penicillin, and Tylosin) ²	LC/MS/MS	LCMS 011
Ash Determination in Feeds ⁴	Gravimetric	FD 019
Ash Determination in Foods ⁵	Gravimetric	FO 022
Available Phosphorus (Direct) in Fertilizers ^{2,1}	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 ^{2,1}	ICP-AES	WC 010, ME 026
Chloride ⁴	Titration	FD 010
Crude Fiber ⁴	Gravimetric	FD 039
Fat (Acid Hydrolysis) ⁴	Gravimetric	FD 027
Fat (Acid Hydrolysis) ⁵	Gravimetric	FO 008
Fat (Base Hydrolysis) ⁵	Gravimetric	FO 009
Fat (Ether Extraction) ⁴	Gravimetric	FD 026
Fat (Petroleum Ether Extraction) ⁵	Gravimetric	FO 007
Fat Soluble Vitamins (Vitamin D3 and E) ^{2,3}	LC/MS/MS	HPLC 034
Fatty Acid Profile (Saturated, Polyunsaturated, and Mono-unsaturated) ^{2,3}	GC-FAMES	HPLC 004, 008
Fiber (Acid Detergent) ⁴	Gravimetric	FD 021
Fiber (Neutral Detergent) ⁴	Gravimetric	FD 022
Genetically Modified Organisms (GMO) ⁵	Digital Droplet PCR	FO 065
Glycoalkaloids in Potato Products ²	LC/MS/MS	HPLC 044
Glyphosate and Metabolites ²	LC/MS/MS	LCMS 028
HPLC-UV – Cannabinoid Potency in Plant, Oil, and Edible Materials ^{2,7}	HPLC-UV	HPLC 059
Lysine ^{2,3}	LC/MS/MS	HPLC 024
Meat Speciation (Sheep, Chicken, Goat, Beef, Pork, Turkey, Horse, Alligator, Bison, Kangaroo, Duck, Venison, Rabbit, Salmon) ⁵	Digital Droplet PCR	FO 073
Melamine, Cyanuric Acid, Ammeline, and Ammelide ²	LC/MS/MS	LCMS 018

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

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Acetochlor Acrinathrin-2 Alachlor Aldrin Allethrin-3,4 Allidochlor alpha Chlordane alpha-BHC Alpha-BHC Ametryn Anthraquinone Atrazine Azinphos-ethyl Azinphos-methyl Benfluralin Benfluraline Bifenthrin Biphenyl Bromacil Bromfenvinphos Bromfenvinphos-methyl Bromophos Bromophos-ethyl Bromopropylate Bupirimate Butachlor Butylate Captafol Captan Carbaryl Carbophenothion Carfentrazone-ethyl Chlorbenside Chlorfenapyr Chlorfenson Chloroneb Chlorothalonil Chlorpropham Chlorpyrifos Chlorpyrifos-methyl Chlorthal-dimethyl Chlorthiophos-3 Chlozolate cis-Chlordane cis-Nonachlor Clomazone Coumaphos Cyanazine Cycloate		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
<p> Cyfluthrin-1 Cyfluthrin-2 Cyfluthrin-3 Cyfluthrin-4 Cypermethrin-1 Cypermethrin-2 Cypermethrin-3 Cypermethrin-4 Cyprodinil Deisopropylatrazine delta-BHC Deltamethrin-1 Deltamethrin-2 Demeton-O Demeton-S Desethyl atrazine Desethylatrazine Di-allate-1 Di-allate-2 Diazinon Dichlobenil Dichlofluanid Dichlorovos Dichlorvos Dieldrin Dimethachlor Dimethenamid Dimethoate Diphenamid Diphenylamine Disulfoton Edifenphos Endosulfan ether Endosulfan I Endosulfan I (alpha) Endosulfan II Endosulfan II (beta) Endosulfan sulfate Endrin Endrin ketone EPN EPTC (Eptam) Ethalfluralin Ethion Ethoprop Ethoprophos Ethylan Etofenprox Etridiazole </p>		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Fenamiphos Fenarimol Fenchlorphos Fenitrothion Fenpropathrin Fenson Fensulfothion Fenthion Fenvalerate-1 Fenvalerate-2 Fipronil Fipronil desulfinyl Fluazifop-P-butyl Fluchloralin Flucythrinate-1 Flucythrinate-2 Fludioxonil Fluquinconazole Fluridone Flusilazole Flutolanil Flutriafol Folpet Fonofos gamma Chlordane gamma-BHC gamma-BHC (Lindane) Heptachlor Heptachlor epoxide Cis-Heptachlor Hexachlorobenzene Hexazinone Imazalil Iodofenphos Iprodione Isazofos Isodrin Isofenphos Isophenphos Isopropalin lambda-Cyhalothrin Lenacil Leptophos Linuron Malathion Merphos Metalaxyl Metazachlor Methacrifos		

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Methamidophos Methiocarb Methoxychlor Methyl Parathion Metolachlor Metribuzin Mevinphos-1 Mevinphos-2 MGK-264 Mirex Monocrotophos Myclobutanil N-(2,4-Dimethylphenyl)formamide Naled Nitralin Nitrofen Norflurazon o,p'-DDD o,p'-DDE o,p'-DDT Omethoate Oxadiazon Oxyfluorfen p,p'-DDD p,p'-DDE p,p'-DDT 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 pp-DDD pp-DDE pp-DDT Pretilachlor		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Prochloraz Procymidone Prodiamine Profenofos Profluralin Prometon Prometryn Promiphos-methy Propachlor Propanil Propargite-1 Propargite-2 Propazine Propisochlor Propyzamide Prothiofos Pyraclofos Pyrazophos Pyridaben Pyridaphenthion Pyrimethanil Pyriproxyfen Quinalphos Quintozene Resmethrin-1 Resmethrin-2 Ronnel Simazine Stirofos (tetrachlorvinphos) 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 Tetramethrin-1 Tetramethrin-2 Thiabendazole Tokuthion		



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Tolclofos-methyl Tolyfluanid Toxaphene trans-Chlordane Transfluthrin trans-Nonachlor Triadimefon Triadimenol-1 Triadimenol-2 Triallate Triazophos Trichloronat Tricyclazole Triflumizole Trifluralin Vinclozolin		
Potassium, High Soluble in Fertilizers ^{2,1}	ICP-AES	WC 099, ME 026
Protein (Crude) ⁴	Combustion	FO 014
Protein (Crude) in Feed/Animal Foods ⁴	Combustion	FD 070
Salt-Volhard Method ⁵	Titration	FO 026
Sugar Profile (Glucose, Fructose, Sucrose, Maltose, Lactose) ^{2,3}	HPLC-RI	HPLC 009
Sulfur in Fertilizers ^{2,4}	Combustion	WC 065
Taurine ^{2,3}	LC/MS/MS	HPLC 049
Thyroid Hormone in Pet Foods ²	LC/MS/MS	LCMS 023
Total Amino Acid Profile (Threonine, Serine, Glutamic Acid, Proline, Glycine, Alanine, Valine, Isoleucine, Leucine, Tyrosine, Phenylalanine, Lysine, Histidine, Arginine) ^{2,3}	LC/MS/MS	HPLC 048
Total Iodine ⁶	ICP-MS	ME 082
Total/Ortho Phosphorus in Fertilizers ²	Spectrophotometer	WC 004

<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
Total Starch ⁴	Glucometer	WC 047
Total, Soluble, and Insoluble Dietary Fiber ⁵	Gravimetric	FO 027
Tryptophan ^{2,3}	LC/MS/MS	HPLC 025
Vitamin A ^{2,3}	HPLC	HPLC 011
Vitamin B1 (Thiamine) ^{2,3}	HPLC	HPLC 022
Vitamin C ^{2,3}	HPLC	HPLC 010
Vitamin D2 & D3 ^{2,3}	LC/MS/MS	HPLC 064
Vitamin E ²	HPLC-UV	HPLC 070
Water Soluble Vitamins (Vitamin B2 (Riboflavin), Pantothenic Acid, Vitamin B6 (Pyridoxine), Biotin, Folic Acid, Vitamin B12, Niacin, Nicotinamide, Nicotinic Acid) ^{2,3}	LC/MS/MS	HPLC 035

¹ Tests performed at Main Building: 13611 B St., Omaha, NE 68144

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

³ Tests performed at C Building: 13626 C St., Omaha, NE 68144

⁴ Tests performed at PoDeBo Building: 13516 C St., Omaha, NE 68144

⁵ Tests performed at AmBr Building: 13535 C St., Omaha, NE 68144

⁶ Tests performed at DEB Building: 13606 B St., Omaha, NE 68144

⁷ 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



<u>Test(s)</u>	<u>Technology</u>	<u>Test Method(s)</u>
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 27th 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.