



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ANÁLISIS TÉCNICOS S.A. DE C.V.
Km. 7 Carretera Pachuca – Actopan
Col. Ejido Santa Julia, Pachuca
Hidalgo C.P., Mexico 42088
Carlos José Sepúlveda Ibarra Phone: 52 771 713 2801

CHEMICAL

Valid To: September 30, 2023

Certificate Number: 4317.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on food, and agricultural products:

<u>Test(s)/Technology</u>	<u>Matrices</u>	<u>Reference Method</u>	<u>Test Method</u>
Acrylamide in Food	Agricultural Products and Foods	-----	AE-ACRI
Detection of Gliadin and Estimation of Gluten Concentration in Gluten Free Food by Enzyme-Linked Immunosorbent Assay (ELISA)	Agricultural Products and Foods	Official R5 Mendez Method: Sandwich ELISA to Quantify Prolamines from Wheat, Rye and Barley in e.g. Food Declared as Gluten-Free	AE-GE
Determination of Ashes by Gravimetric Method	Agricultural Products and Foods	NMX-F-607-NORMEX-2013	AE-CEA
Determination of Cholesterol by GC / FID	Raw Materials and Food	-----	AE-COA
Determination of Dietary Fiber by Enzymatic-Gravimetric	Agricultural Products and Foods	Internal Method NOM-086-SSA1-1994	AE-FDT
Determination of Ethereal Extract by Soxhlet Method	Agricultural Products and Foods	NMX-F-615-NORMEX-2018	AE-EXET
Determination of Fatty Acid Profile by GC/FID*	Raw Materials and Food	AOAC 2012.13	AE-GS
Determination of Heavy Metals (As, Cd, Cr, Hg, Pb) by ICP-MS	Drinking Water	EPA 6020A	AE-IMAG

<u>Test(s)/Technology</u>	<u>Matrices</u>	<u>Reference Method</u>	<u>Test Method</u>
Determination of Metals (Al, As, Pb, Cr, Fe, Mn, Ni, Zn, Se, Cd, Be, V, Cu, Hg, Co) by ICP-OES	Agricultural Products and Foods	EPA 6010C	AE-MA
Determination of Metals (Ca, Fe, K, Na) by ICP-OES	Agricultural Products and Foods	EPA 6010C	AE-MPTN
Determination of Moisture by Sand Method	Agricultural Products and Foods	NOM-116-SSA1-1994	AE-HAA
Determination of Mycotoxins [DON, Fumonisin (B1 And B2), Zeralenone, Aflatoxins (B1, B2, G1 And G2), and Ochratoxin A] by UHPLC MS/MS	Agricultural Products and Foods	-----	AE-MIC
Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by GC-MS/MS (number of molecules 201)**	Agricultural Foods, Fruits, Legumes, and Seeds	AOAC 2007.01	AE-GC
Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by LC-MS/MS (number of molecules 302)***	Agricultural Foods, Fruits, Legumes, and Seeds	AOAC 2007.01	AE-LC
Determination of Polar Pesticides (Cyanuric Acid, Ethephon, Ethylene Thiourea, Glyphosate, and Maleic Hydrazide) by LC-MS/MS (QuPPE-Method)	Agricultural Foods, Fruits, Legumes, and Seeds	EURL-SRM Quick Method for the Analysis of Numerous High Polar Pesticides by LC-MS/MS Involving Simultaneous Extraction with Methanol	AE-PPOL
Determination of Proteins by Kjeldahl Method	Agricultural Products and Foods	NMX-F-608-NORMEX-2011	AE-PRC
Determination of Sugars [Fructose, Glucose, Sucrose, Maltose and Lactose] by Liquid Chromatography (HPLC-RID)	Agricultural Products and Foods	Agilent Zorbax Carbohydrate Application; Analysis Column, 2015	AE-AH
Determination of Vitamin A, (Retinol Palmitate, β -carotene), Vitamin E (DL- α -Tocopherol), Vitamin D, and Vitamin K by HPLC-DAD	Agricultural Products and Foods	BAM 1998, 8th edition, Chapter 14; APHA 3 rd Edition	AE-VD

<u>Test(s)/Technology</u>	<u>Matrices</u>	<u>Reference Method</u>	<u>Test Method</u>
Determination of Vitamin B1 (Thiamin), Vitamin B2 (Riboflavin), Vitamin B3 (Niacin), Vitamin B5 (Pantothenic Acid), Vitamin B6 (Pyridoxine), Vitamin B9 (Folic Acid), Vitamin C (Ascorbic Acid) by HPLC-DAD	Agricultural Products and Foods	-----	AE-VBC
Determination of Vitamin B12 (Cobalamin) and Biotin by HPLC-DAD	Agricultural Products and Foods	-----	AE-VB

*Determination of Fatty Acid Profile by GC/FID

Butyric acid (C4:0), Caproic acid (C6:0), Caprylic acid (C8:0), Capric acid (C10:0), Lauric acid (C12:0), Myristic acid C14:0, Myristoleic acid (C14:1), Pentadecanoic acid (C15:0), cis-10-Pentadecenoic acid (C15:1), Palmitic acid (C16:0), Palmitoleic acid (C16:1), Heptadecanoic acid (C17:0), cis-10-Heptadecenoic (C17:1), Stearic acid (C18:0), Elaidic acid (C18:1 TFA) (C18:1n9t), Oleic acid (C18:1n9c), Linolelaidic acid (C18:2 TFA)(C18:2n6t), Linoleic acid (C18:2n6c),	γ-Linolenic acid (C18:3n6), Linolenic acid (C18:3n3), Arachidic acid (C20:0), cis-11-Eicosenoic acid (C20:1), Heneicosanoic acid (C21:0), cis-11,14-Eicosadienoic acid (C20:2), cis-8,11,14-Eicosatrienoic acid (C20:3n6), Arachidonic acid (C20:4n6), cis-11-14-17-Eicosatrienoic acid (C20:3n3), Behenic acid (C22:0), Erucic acid (C22:1n9), cis-5,8,11,14,17-Eicosapentaenoic acid (C20:5n3), Tricosanoic acid (C23:0), cis-13,16-Docosadienoic acid (C22:2n6), Lignoceric acid (C24:0), Nervonic acid (C24:1n9), cis-4,7,10,13,16,19-Docosahexaenoic acid (C22:6n3)
--	--

**Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by GC-MS/MS

1-Naphthol, 2,3 dihydro- 2,2dimethylbenzofuran, 2,6 Dichlorobenzonitrilo, 2, 4-D Methyl ester, 3,4 Dichloroaniline, Aclonifen, Acrinathrin, Aldrin, Ametryn, Atrazine, Azinphos-methyl, Azoxystrobin,	Cyhalothrin L, Cyhalothrin G, Cypermethrin a I, Cypermethrin a II, Cyprodinil, DDD-o,p, DDD-p,p, DDE-o,p, DDE-p,p, DDT-o,p, DDT-p,p, DEET (Diethyl-m-toluamide, N,N-), Deltamethrin I,	Fenpropathrin, Fenson, Fensulfothion, Fenthion, Fipronil, Fluchloralin, Flucythrinate I, Flucythrinate II, Fludioxonil, Flumiclorac-pentyl, Fluopyram, Fluridone, Flutolanil, Fluvalinate I,	Parathion, Parathion methyl, Pentachloroaniline, Pentachloroanisol, Pentachlorophenol, Penthiopyrad, Permethrin-cis, Permethrin-trans, Phenyl valerate, Phorate, Phosmet (Imidan), Procymidone, Profenofos, Profluralin,
---	--	---	---

**Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by GC-MS/MS (cont'd)

<p>Benalaxyl, Benfluralin, BHC lindane alpha, BHC lindane beta, BHC lindane delta, BHC lindane gamma , Bifenox, Bifenthrin, Bromacil, Bromophos methyl , Bromopropylate, Buprofezin , Butachlor, Butylate, Cadusafos, Captan, Carbaryl, Carbofuran, Chinometionate, Chlordane-cis (alpha), Chlordimeform, Chlorfenapyr, Chlorobenzilate, Chloroneb, Chloropropylate, Chlorothalonil, Chlorpropham, Chlorpyrifos, Chlorpyrifos methyl, Chlortal dimethyl, Chlorthiophos, Coumaphos, Cyflufenamid, Cyflumetofen, Cyfluthrin I, Cyfluthrin II , Cyfluthrin III, Cyfluthrin IV,</p>	<p>Deltamethrin II, Demeton O, Demeton S, Desmetryn, Diazinon, Dichlofluanid, Dichloran, Dichlorvos, Diclofop methyl, Dieldrin, Dimepax, Dimethoate, Dimethylphenol, 2,4- (2,4-xyleneol), Dioxathion, Diphenylamine, Disulfoton, Disulfoton sulfone, Disulfoton sulfoxide, Endosulfan I (alpha isomer), Endosulfan II (beta isomer), Endosulfan sulfate, Endrin, EPTC, Esfenvalerate I, Esfenvalerate II, Fenvalerate I, Fenvalerate II, Ethalfluralin, Ethoprophos (Ethoprop), Ethylan (Perthane), Etion, Etofenprox, Etridiazole (Terrazole, Echlomezol), Fenamidone, Fenitrothion,</p>	<p>Fluvalinate I, Fluvalinate II, Folpet, Fonofos (dyfonate), g Chlordan, Heptachlor, Heptachlor exo-epoxide (isomer B), Hexachlorobenzene, Hexazinone, Imiprothrin I, Imiprothrin II, Indoxacarb, Iprodione, Isocarbophos, Isoprothiolane, Kelthane, Leptophos, Malathion, Metalaxyl-M, Methiocarb, Methiocarb sulfona, Methiocarb sulfoxide, Methoprene, Methoxychlor , Methylpentachlophenyl Sulfide, Metribuzin, Mevinphos, MGK-264 I, MGK-264 II, Mirex, Myclobutanil, Nitrapyrin, Nitrothal-isopropyl, Norflurazon-Desmethyl, O Phenylphenol, op Dicofol, Ovex, Oxadiazon, Oxyfluorfen,</p>	<p>Promecarb, Prometon, Prometryn, Propazin , Propiconazole I, Propiconazole II, Propoxur , Prothiofos (Tokution), Pyridalyl, Pyridaphenthion, Pyriproxyfen, Quintozene (Pentachloronitrobenzene), Ronnel (Fenchlorphos), Sebuthylazine, Simazine, Sulprofos (Bolstar), Sumithrin (Phenothrin) I, Sumithrin (Phenothrin) II, Tebuconazole, Tebufenpyrad, Tecnazene, Terbacil, Terbutylazine, Terbutryn, Tetrachlorvinphos, E-isomer, Tetradifon, Tetrahydrophthalimide, cis-1,2,3,6-, Thiocyclam hydrogen oxalate, Tolchlofos methyl, Tolyfluanid, Triadimefon, Triadimenol, Triallate, Triazophos, Tributylphosphate, Trichloronat, Tricyclazole, Trifluralin, Uniconazole, Vinclozolin</p>
---	---	---	--

***Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by LC-MS/MS

2,6-Dichlorobenzamide, 3-Hydroxy carbofuran, Abamectin, Acephate, Acetamiprid, Acetochlor, Alachlor, Aldicarb, Aldicarb-sulfone, Aldicarb-sulfoxide (Aldoxicarb), Ametoctradin, Amicarbazone, Aminocarb, Atrazine-2-hydroxy, Atrazine-desethyl-desisopropyl, Azamethiphos, Azibenzolar-S-methyl, Azinphos-ethyl, Azinphos-Methyl, Baycarb (Fenobucarb), Bendiocarb, Benfuracarb, Bensulfuron-methyl, Bensulide, Benthiavalicarb-isopropyl, Benzoximate, Bifenazate, Bitertanol, Boscalid, Bupirimate, Butocarboxim-sulfoxide, Buturon, Carbaryl, Carbendazim, Carbetamide, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorantraniliprole, Chlorbromuron, Chlorfenvinphos, Chlorfluazuron,	Cyazofamid, Cycloate, Cyflumetofen, Cymoxanil, Cyproconazole, Cyromazine, Daminozide, Demeton-S-methyl-sulfone, Desmedipham, Dialifos, Diazinon-O-Analog, Dichlofenthion, Dicrotophos, Diethofencarb, Difenoconazole, Difenoxuron, Diflubenzuron, Diflufenican, Dimefuron, Dimethachlor, Dimethenamid, Dimethoate, Dimethomorph, Diniconazole, Dinotefuran, Diphenamid, Diuron (Karmex), Dodemorph Acetate, Edifenphos, Emamectin Benzoate, EPN, Epoxiconazole, Etaconazole, Ethiofencarb, Ethiofencarb-sulfone, Ethirimol, Ethofumesate, Etoxazole, Famoxadone, Fenamiphos, Fenamiphos-Sulfone, Fenamiphos-Sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenfuram, Fenhexamid, Fenoxaprop-ethyl,	Flonicamid, Fluazifop-butyl, Flubendiamide, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluoroglycofen-ethyl, Fluoxastrobin, Fluroxypyr, Flurtamone, Flusilazole, Flutriafol, Fluxapyroxad, Fonofos (Dyfonate), Forchlorfenuron, Formetanate, Formothion, Fosthiazate, Fuberidazole, Furathiocarb, Haloxyfop-methyl, Heptenophos, Hexaconazole, Hexaflumuron, Hexythiazox, Imazalil, Imazapyr, Imazaquin, Imidacloprid, Iprovalicarb, Irgarol, Isazophos, Isofenphos, Isoprocab, Isoproturon, Isoxaflutole, Kresoxim-methyl, Lenacil, Linuron, Lufenuron, Malaoxon, Mancozeb, Mandipropamid, Mebendazole, Mecarbam, Mepanipyrim, Metamitron,	Methoxyfenozide, Metobromuron, Metolachlor, Metolcarb, Metosulam, Metoxuron, Metrafenone, Metsulfuron-methyl, Mexacarbate, Molinate, Monocrotophos, Monolinuron, Monuron, N-2,4-Dimethylphenyl formamide (2,4-DMPF), Napropamide, Neburon, Nicosulfuron, Norflurazon, Ofurace, Omethoate, Oxadixyl, Oxamyl, Oxamyl Oxime, Oxydemeton-Methyl, Paclobutrazol (Bonzi), Paraoxon, Paraoxon-Methyl, Penconazol, Pencycuron, Pendimethalin, Phenmedipham, Phenthoate, Phorate-sulfone, Phorate-sulfoxide, Phosalone, Phosphamidon, Phoxim, Picolinafen, Picoxystrobin, Piperalin, Piperonyl Butoxide, Piperophos,	Prosulfocarb, Prosulfuron, Pymetrozine, Pyraclostrobin, Pyrazophos, Pyridaben, Pyrimethanil, Quinalphos, Quinoxifen, Quizalofop-ethyl, Rimsulfuron, Rotenone, S-Metolachlor, Simetryn, Spinetoram J, Spinosad A, Spirodiclofen, Spiromesifen, Spirotetramat, Spiroxamine, Sulfentrazone, Sulfosulfuron, Sulfotep, Sulfoxaflor, Tebufenozide, Tebutam, Tebuthiuron, Teflubenzuron, Terbumeton, Terbutylazine-desethyl, Tetraconazole, Tetramethrin, Thiabendazole, Thiacloprid, Thiamethoxam, Thidiazuron, Thifensulfuron-methyl, Thiobencarb, Thiodicarb, Thiofanox, Thiofanox Sulfoxide, Thionazin, Thiophanate-methyl, Triasulfuron,
---	--	---	---	--

***Determination of Pesticide Residues (Incorporating QuEChERS Extraction) by LC-MS/MS (cont'd)

Chloridazon (Pyrazon), Chlorimuron-ethyl, Chlormequat, Chlorotoluron, Chloroxuron,Chlorsulfuron, Clodinafop-propargyl, Clofentezine, Clomazone, Cloquintocet-mexyl, Clothianidin, Crimidine, Cyanazine, Cyantraniliprole,	Fenoxycarb, Fenpropidin, Fenpropimorph, Fenpyroximate, Fenuron, Flamprop-isopropyl, Flamprop-methyl, Flazasulfuron,	Metazachlor, Metconazole, Methabenzthiazuron, Methamidophos, Methfuroxam, Methidathion, Methiocarb, Methomyl, Methoprotryne,	Pirimicarb, Pirimiphos-ethyl, Pirimiphos-methyl, Primisulfuron-methyl, Prochloraz, Pronamide, Propachlor, Propamocarb, Propanil, Propargite (Omite), Propetamphos , Propoxur(Baygon), Propyzamide,	Tribenuron-methyl, Trichlorfon, Triclocarban, Trietazine, Trifloxystrobin, Triflumizole, Triflumuron, Triflusulfuron-methyl, Triforine, Trimidal, Vamidothion
---	--	--	--	--





Accredited Laboratory

A2LA has accredited

ANÁLISIS TÉCNICOS S.A. DE C.V.

Hidalgo C. P., MEXICO

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 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 16th day of November 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4317.01
Valid to September 30, 2023

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