



CERTIFICATE OF ACCREDITATION

This is to attest that

EXPERT LABORATOIRE ANALYTIQUE MAROC (ELAM)

BLOC D1 N°171, AGADIR 80060, MAROC.
AGADIR, 80060, KINGDOM OF MOROCCO

Testing Laboratory TL-1128

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 24, 2023



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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EXPERT LABORATOIRE ANALYTIQUE MAROC (ELAM)

Contact Name Mr. Zazou Hicham

Contact Phone +212 612573257

Accredited to ISO/IEC 17025:2017

Effective Date March 24, 2023

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food Chemistry – Organics	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces	2,4'Methoxychlor 3,4-Dichloroanilie 4,4-Methoxychlor Olefin Acetochlor Acrinathrin Alachlor Aldrin Anthraquinone Atrazine Azinphos-ethyl Azinphos-methyl Benfluralin Bifenthrin Bromofenvinphs Bromofenvinphos-methyl Bromophos ethyl BromophosMethyl Bromopropylate Bupirimate Captan Carbophenothin Carfentrazone ethyl Chlorbensid Chlordane, Cis Chlordane, Trans Chlorfenapyr Chlorfenson Chlorfenvinphos Chlorobenzilate Chlorothalonil Chlorpropham Chlorpyrifos Ethyl Chlorpyrifos Methyl Chlorthal Dimethyl Chlorthiophos Chlozolinat Clomazone Coumaphos Cyfluthrin	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC- based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Cyhalothrin Lambda Cyprodinil DDD-O.P' DDD-P.P' DDE-O.P' DDE-P.P' DDT-O.P' DDT-P.P' Deltamethrin Diallate Diazinon Dichloran Dichlorobenzophenone 4,4' Dieldrin Dimethachlor Diphenamid Disulfoton Edifenphos Endosulfan Ether Endosulfan-Alpha Endosulfan-Beta Endosulfan-Sulfate Endrin Ketone EPN Ethalfuralin Ethion Ethylan (Perthane) Fenamiphos Fenarimol Fenchlorphos Fenitrothion Fenpropathrin Fenson Fenthion Fenvalerate Fipronil Fluazifop-p-butyl Fluchloralin Fludioxonil Flutolanil Fluvalinate-Tau Folpet Fonofos HCH-alpha HCH-beta HCH-delta HCH-gamma Lindane Heptachlor Heptachlor epoxide B (cis)	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC- based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Hexazinone (Velpar) Iprodione Isazofos Isodrin Isopropalin Leptophos Malathion Metalaxyl Metazachlor Methoxychlor Metolachlor Mevinphos MGK 264 Mirex Myclobutanil N-(2,4- Dimethylphenyl)formamide Nitalin Nitrofen Norflurazon Oxadiazon Oxyfluorfen Paclobutrazol Parathion Ethyl Parathion Methyl Penconazole Pendimethalin Pentachloroaniline Pentachloroanisole Pentachlorobenzonitrile Pentachlorothianizole Permethrin Phenothrin Phenylphenol-ortho Phorate Phosalone Phosmet Pirimiphos Ethyl Pirimiphos Methyl Pretilachlor Prochloraz Procymidone prodiamine Profenofos Profluralin Propachlor Propisochlor Propyzamide Prothiofos Pyraclofos	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC- based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Pyrazophos Pyridaben Pyridaphenthion Pyrimethanil Pyriproxyfen Quinalphos Quintozene (Pentachloronitrobenzene) Sulfotep Sulprofos Tebuconazole Tebufenpyrad Tefluthrin Terbufos Terbutylazine Tetrachlorvinphos Tetradifon Tetrahydrophthalimide (THPI) Tetramethrin Tolyfluanid Transfluthrin Trans-Nachlor Triadimefon Triadimenol Tri-Allate Triazophos Tricyclazole Triflumizol Trifluralin Vinclozolin 3-Hydroxycarbofuran Acephate Acetamiprid Acibenzolar-S-methyl Aldicarb sulfoxide Aldicarb Ametryn Aminocarb Amitraz Azoxystrobin Benalaxyl Bendiocarb Benzoximate Bifenazate Bitertanol Boscalid Bromucanazole Buprofezin Butafenacil	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC- based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Butocarboxim Carbaryl Carbendazim Carbetamide Carbofuran Carboxin Carfentrazone-ethyl Chlorantraniliprole Chlorfluazuron Chlorotoluron Chloroxuron Clethodim Clofentezine Clothianidin Cyazofamid Cycluron Cymoxanil Cyproconazole Desmedipham Diclobutrazol Dicrotophos Diethofencarb Difenoconazole Dimethoate Dimethomorph Dimoxystrobin Diniconazole Dioxacarb Diuron Doramectin Emamectin-benzoate Epoconazole Eprinomectin Etaconazole Ethiofencarb Ethiprole Ethirimol Ethofumesate Etoxazole Famoxadone Fenarimol Fenamidone Fenazaquin Fenbuconazole Fenhexamid Fenobucarb Fenoxycarb Fenpropimorph Fenpyroximate Fenuron Flonicamid	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Flubendiamide Flufenacet Flufenoxuron Fluometuron Fluoxastrobin Fluquinconazole Flusilazole Flutriafol Forchlorfenuron Formetanate HCl Fuberidazole Furalaxyl Furathiocarb Halofenozide Hexaconazole Hexaflumuron Hexythiazox Hydramethylnon Imazalil Imidaclopid Indoxacarb Ipconazole Iprovalicarb Isocarbophos Isoprocarb Isoproturon Ivermectin Kresoxim-methyl Linuron Lufenuron Mandipropamid Mefenacet Mepanipyrim Mepronil Metaflumizone Metconazole Methabenzthiazuron Methamidophos Methiocarb Methomyl Methoprotryne Methoxyfenozide Metobromuron Metribuzin Mexacarbate Monocrotophos Monolinuron Moxidectin Neburon Nitenpyram	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC- based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Novaluron Nuarimol Omethoate Oxadixyl Oxamyl Paclobutrazol Penconazole Pencycuron (Monceren) Phenmedipham Picoxystrobin Piperonyl butoxide Promecarb Prometon Prometryne Propamocarb Propargite Propham Propiconazole Propoxur Pyracarbolid Pyraclostrobin Pyridaben Pyrimethanil Pyriproxyfen Quinoxyfen Rotenone Secbumeton Siduron Simetryn Spinetoram Spinosad Spirodiclofen Spiromesifen Spirotetramat Spiroxamine Sulfentrazone Tebufenozide Tebuthiuron Teflubenzuron Temephos Terbumeton Terbutryn Tetraconazole Thiabendazole Thiacloprid Thiamethoxam Thidiazuron Thiobencarb Thiofanox Thiophanate-methyl	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)

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Food Chemistry – Organics (cont'd.)	Fruits, Vegetables, (fresh, dried and transformed), Cereals and Graces (cont'd.)	Triadimefon Triadimenol Trichlorfon Tricyclazole Trifloxystrobin Triflumizole Triflumuron Triticonazole Vamidothion Zoxamide	NF EN 15662:05/2018- Foods of plant origin - Multimethod for the determination of pesticide residues using GC- and LC-based analysis following acetonitrile extraction/partitioning and clean-up by dispersive SPE - Modular QuEChERS-method (cont'd.)
	Products of Vegetable Origin	Dithiocarbamates: Expressed as CS ₂	Manual of Pesticide Residue Analysis, Volume I (1987) Page: 353-360- S15. (Method G.Keppel)
Chemistry – Inorganics	Water	Nitrate	MO.E 07: Internal method based on ISO 7890-3/1988 – Determination of nitrate – Spectrometric method using sulfosalicylic acid
		Sulfates	NF T90-040/1986 Determination of sulfates – nephelometric Method
		Chlorine	NM 03.07.024/1990 Determination of chlorine
		Total Hardness and calcium hardness	NM 03.7.020/1991 Determination of total hardness and calcium hardness
		Dry residue at 105 °C and 180 °C	NM 03.7.088/2016 Determination of dry residue at 105 °C and 180 °C
		Suspended solids	NM EN 872/2013 Determination of suspended solids – Method by filtration through glass fibre filters
		Nitrites	NM ISO 6777/1999 Determination of nitrites: Manual spectrometric method
		Turbidity	NM ISO 7027-1/2019 Determination of turbidity – Part 1: Quantitative methods
		Ammonium	NM ISO 7150-1/1999 Determination of ammonium – Part 1: Manual spectrometric method
		Electrical conductivity	NM ISO 7888/2001 Determination of electrical

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Chemistry – Inorganics (cont'd.)	Water (cont'd.)		conductivity
		Permanganate index	NM ISO 8467/2012 Determination of permanganate index
		Total and composite alkalinity	NM ISO 9963- 1/2001 Determination of alkalinity – Part 1: Determination of total and composite alkalinity
		pH	NM ISO 10523/2012 Determination of pH
		Ca, Mg, Na, K, Fe, Mn, Cu, Zn, S, P and B	NM ISO 11885/2014 Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)
	Soil	Organic carbon	MO.S 04: Internal method based on NF ISO 14235/1998 Dosage of organic carbon by sulfochromic oxidation
		Active limestone	NF X 31-106/2002 Determination of active limestone
		Ca ⁺⁺ , Mg ⁺⁺ , K ⁺ , Na ⁺	NF X 31-108/2002 Determination of Ca ⁺⁺ , Mg ⁺⁺ , K ⁺ , Na ⁺ cations extractable by ammonium acetate – Shaking method
		Fe, Mn, Cu and Zn	NF X 31-120/2003 Determination of copper, iron, manganese and zinc – Extraction by ammonium acetate in the presence of EDTA
		pH	NM ISO 10390/2013 Determination of pH
		Phosphorus	NM ISO 11263/2013 Determination of phosphorus – Spectrometric determination of phosphorus soluble in sodium hydrogen carbonate solution
		Electrical conductivity	NM ISO 11265/2016 Determination of the specific electrical conductivity
		Dry matter and water content	NM ISO 11465/2016 Determination of dry matter and water content on a mass basis – Gravimetric method