



**DET
TA
GLIO**

**DEI
PROFILI
ANALITICI**

Agro.Biolab Laboratory

**20
22**

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ANALISI CHIMICHE

RESIDUI DI FITOFARMACI

TABELLA 1 - Elenco Principi Attivi Multiresiduale QuEChERS (UNI EN 15662:2018) Livello Esteso		
2,4-D (Sum Of 2,4-D, Its Salts, Its Esters And Its Conjugates, Expressed As 2,4-D)	Bromocyclen	Cinosulfuron
2-Phenylphenol (incl. sodium salt orthophenyl phenol)	Bromofos Metile	Clethodim (Sum Of Sethoxydim And Clethodim Including Degradation Products Calculated As Sethoxydim)
Abamectin (Sum Of Avermectin B1a, Avermectin B1b And Delta-8,9 Isomer Of Avermectin B1a, Expressed As Avermectin B1a)	Bromophos-Ethyl	Climbazole
Acefate	Bromopropylate	Clodinafop And Its S-Isomers And Their Salts, Expressed As Clodinafop
Acequinocyl	Bromoxynil And Its Salts, Expressed As Bromoxynil	Clofentezine
Acetamiprid	Bromuconazole (Sum Of Diastereoisomers)	Clomazone
Acibenzolar-S-Methyl (Sum Of Acibenzolar-S- Methyl And Acibenzolar Acid (Free And Conjugated), Expressed As Acibenzolar-S- Methyl)	Bupirimate	Cloprop
Acifluorfen	Buprofezin	Clopyralid
Aclonifen	Butafenacil	Clothianidin
Acrinathrin and its enantiomer	Butocarboxim	Coumatos
Alachlor	Butocarboxim Sulfoxide	Cyanofenphos
Aldicarb (Sum Of Aldicarb, Its Sulfoxide And Its Sulfone, Expressed As Aldicarb)	Butoxycarboxim	Cyanophos
Aldrin And Dieldrin (Aldrin And Dieldrin Combined Expressed As Dieldrin)	Butralin	Cyantranilprole
Ametoctradin	Buturon	Cyazofamid
Ametryn	Cadusafos	Cycloate
Amidithion	Captafol	Cycluron
Amidosulfuron	Captan (Sum Of Captan And THPI, Expressed As Captan)	Cyflufenamid (Sum Of Cyflufenamid (Z-Isomer) Plus Its E-Isomer)
Aminocarb	Carbaryl	Cyfluthrin (Cyfluthrin Including Other Mixtures Of Constituent Isomers (Sum Of Isomers))
Amitraz (Including The Metabolites Containing The 2,4-Dimethylaniline Moiety Expressed As Amitraz)	Carbendazim And Benomyl (Sum Of Benomyl And Carbendazim Expressed As Carbendazim)	Cyhalofop-Butyl
Anilazina	Carbofenotion	Cymiazole
Atraton	Carbofuran (Sum Of Carbofuran (Including Any Carbofuran Generated From Carbosulfan, Benfuracarb Or Furathiocarb) And 3-Oh Carbofuran Expressed As Carbofuran)	Cymoxanil
Atrazina	Carboxin	Cypermethrin (Cypermethrin Including Other Mixtures Of Constituent Isomers -Sum Of Isomers-)
Azaconazole	Chinomethionat	Cyproconazole
Azadirachtin	Chlorantranilprole	Cyprodinil
Azinphos-Ethyl	Chlorbenzilat	Cyromazine
Azinphos-Methyl	Chlorbromuron	Daimuron
Azoxystrobin	Chlorbufam	DDT (Sum Of p,p'-DDT, o,p'-DDT, p,p'-DDE And p,p'-TDE (DDD) Expressed As DDT)
Barban	Chlordane (Sum Of Cis- And Trans-Chlordane)	Deef (N,N-Diethyl-M-Toluamid)
Benalaxyl Including Other Mixtures Of Constituent Isomers Including Benalaxyl-M (Sum Of Isomers)	Chlorfenapyr	Deltamethrin (Cis-Deltamethrin)
Bendiocarb	Chlorfenson	Demeton-S-Methyl
Benfluralin	Chlorfenvinphos	Desmedipham
Benodanil	Chlorfluazuron	Diafenthiuron
Bensulfuron Methyl	Chloroneb	Diallate
Bentazone (Sum Of Bentazone, Its Salts And 6-Hydroxy (Free And Conjugated) And 8-Hydroxy Bentazone (Free And Conjugated), Expressed As Bentazone)	Chloropropilate	Diazinon
Benthiavalicarb (Benthiavalicarb-Isopropyl(Kif-230 R-L) And Its Enantiomer (Kif-230 S-D) And Its Diastereoisomers(Kif-230 S-L And Kif-230 R-D), Expressed As Benthiavalicarb-Isopropyl)	Chloridazon (sum of chloridazon and chloridazon-desphenyl, expressed as chloridazon)	Dicapthion
Benzilazuron	Chlormephos	Dichlobenil
Benzovindiflupyr	Chlorothalonil	Dichlofenthion
Benzoximate	Chlorotoluron	Dichlofluanid
Bifenazate (Sum Of Bifenazate Plus Bifenazate-Diazene Expressed As Bifenazate)	Chloroxuron	Dichlorprop: Sum Of Dichlorprop (Including Dichlorprop-P) And Its Conjugates, Expressed As Dichlorprop
Bifenox	Chlorpropham	Dichlorvos
Bifenthrin (sum of isomers)	Chlorpyrifos-Ethyl	Diclobutrazolo
Biphenyl	Chlorpyrifos-Methyl	Diclofop (Sum Of Diclofop-Methyl And Diclofop Acid Expressed As Diclofop-Methyl)
Biterfanolo	Chlorsulfuron	Dicloran
Bixafen	Chlorthal-Dimethyl	Dicofol (Sum Of P,P' And O,P' Isomers)
Boscalid	Chlorthion	Dicrotophos
Bromacil	Chlorthiophos	Diethofencarb
Bromfeninfos	Chlozinate	Difenoconazolo

TABELLA 1 - Elenco Principi Attivi Multiresiduale QuEChERS (UNI EN 15662:2018) Livello Esteso		
Difenoxuron	Fenitrothion	Halfenprox
Diflubenzuron	Fenoprop	Haloxifop (Sum of haloxifop, its esters, salts and conjugates expressed as haloxifop (sum of the R- and S- isomers at any ratio))
Diflufenican	Fenotiocarb	Heptaclor (Sum Of Heptachlor And Heptachlor Epoxide Expressed As Heptachlor)
Dimefox	Fenoxaprop-P	Heptenophos
Dimetfuron	Fenoxycarb	Hexachlorobenzene
Dimethenamid Including Other Mixtures Of Constituent Isomers Including Dimethenamid-P (Sum Of Isomers)	Fenpiclonil	Hexachlorocyclohexane (HCH), alpha-isomer
Dimethoate	Fenpropathrin	Hexachlorocyclohexane (HCH), beta-isomer
Dimethomorph (Sum Of Isomers)	Fenpropidin (Sum Of Fenpropidin And Its Salts, Expressed As Fenpropidin)	Hexaconazole
Dimetilan	Fenpropimorph	Hexaflumuron
Dimoxystrobin	Fenpyrazamine	Hexythiazox
Diniconazole (Sum Of Isomers)	Fenpyroximate	Imazalil
Dinitramine	Fenson	Imazamethabenz
Dinobuton	Fensulfotioin (Somma Di Fensulfotioin, Del Suo Analogo D'ossigeno E Dei Loro Solfoni, Espressa In Fensulfotioin)	Imazamox (Sum Of Imazamox And Its Salts, Expressed As Imazamox)
Dinocap (Sum Of Dinocap Isomers And Their Corresponding Phenols Expressed As Dinocap)	Fenthion (Fenthion And Its Oxigen Analogue, Their Sulphoxides And Sulfone Expressed As Parent)	Imazethapyr
Dioxabenzofos (Salithion)	Fenuron	Imidacloprid
Dioxathion (Sum Of Isomers)	Fipronil (Sum Of Fipronil + Sulfone Metabolite Expressed As Fipronil)	Indoxacarb (Sum Of Indoxacarb And Its R Enantiomer)
Diphenamid	Flazasulfuron	Iodofenphos
Diphenylamine	Flonicamid (Sum Of Flonicamid, Tfng And Tfna)	Iodosulfuron-Methyl (Sum Of Iodosulfuron-Methyl And Its Salts, Expressed As Iodosulfuron-Methyl)
Disulfoton (Sum Of Disulfoton, Disulfoton Sulfoxide And Disulfoton Sulfone Expressed As Disulfoton)	Florasulam	Ioxynil (Sum Of Ioxynil, Its Salts And Its Esters, Expressed As Ioxynil)
Ditalimfos	Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop)	Iprobenfos
Dithianon	Fluazinam	Iprodione
Diuron	Fluazuron	Iprovalicarb
Dodine	Flubendiamide	Isazofos
Emamectin (Emamectin Benzoate B1a, Expressed As Emamectin)	Fluchloralin	Isocarbophos (Iso: Isopropyl O-(Methoxyaminothiophosphoryl)Salicylate)
Endosulfan (Sum Of Alpha-And Beta-Isomers And Endosulfan-Sulphate Expressed As Endosulfan)	Flucycloخور	Isodrin
Endrin	Flucythrinate (Flucythrinate Including Other Mixtures Of Constituent Isomers (Sum Of Isomers))	Isofenfos
EPN	Fludioxonil	Isofenfos Methyl
Epoxiconazole	Flufenacet (Sum Of All Compounds Containing The N Fluorophenyl-N-Isopropyl Moiety, Expressed As Flufenacet Equivalent)	Isofetamid
Epic (Ethyl Dipropylthiocarbamate)	Flufenoxuron	Isoprocarb
Esfenvalerate (Fenvalerate (any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate))	Flumioxazine	Isopropalin
Etaconazole	Fluometuron	Isoproturon
Ethiofencarb	Fluopicolide	Isopyrazam
Ethion	Fluopyram	Isoxaben
Ethirimol	Flutrimazole	Isoxaflutole (Sum Of Isoxaflutole And Its Diketonitrile-Metabolite, Expressed As Isoxaflutole)
Ethofumesate (Sum of ethofumesate, 2-keto-ethofumesate, open-ring-2-keto-ethofumesate and its conjugate, expressed as ethofumesate)	Flupyradifurone	Kresoxim-Methyl
Ethoprofos	Fluquinconazole	Lambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)
Ethoxyquin	Fluroxypyr (Sum Of Fluroxypyr, Its Salts, Its Esters, And Its Conjugates, Expressed As Fluroxypyr)	Lenacil
Etofenprox	Flusilazole	Leptophos
Etoazole	Fluthiacet-Methyl	Lindane (Gamma-isomer of hexachlorocyclohexane (HCH))
Etriacazole	Flutolanil	Linuron
Etrimfos	Flutriafol	Lufenuron (any ratio of constituent isomers)
Famophos (Famphur)	Fluxapyroxad	Malathion (Sum Of Malathion And Malaoxon Expressed As Malathion)
Famoxadone	Folpet (sum of folpet and phthalimide, expressed as folpet)	Mandestrobin
Fenamidone	Fonofos	Mandipropamid
Fenamiphos (Sum Of Fenamiphos And Its Sulphoxide And Sulphone Expressed As Fenamiphos)	Forchlorfenuron	Mcpa And Mcpb (Mcpa, Mcpb Including Their Salts, Esters And Conjugates Expressed As Mcpa)
Fenarimol	Formetanate; Sum Of Formetanate And Its Salts Expressed As Formetanate (Hydrochloride)	Mecarbam
Fenzaquin	Formothion	Mecoprop (Sum Of Mecoprop-P And Mecoprop Expressed As Mecoprop)
Fenbuconazole	Fosthiazate	Mepanipyrim
Fenhexamid	Furalaxyl	Mephosfolan

TABELLA 1 - Elenco Principi Attivi Multiresiduale QuEChERS (UNI EN 15662:2018) Livello Esteso		
Mepronil	Penconazole	Pyrethrins
Meptyldinocap (Sum Of 2,4 DNOPC And DNOP Expressed As Meptyldinocap)	Pencycuron	Pyridaben
Metaflumizone (Sum Of E- And Z- Isomers)	Pendimethalin	Pyridalyl
Metalaxyl And Metalaxyl-M (Metalaxyl Including Other Mixtures Of Constituent Isomers Including Metalaxyl-M -Sum Of Isomers-)	Penthiopyrad	Pyridaphenthion
Metamitron	Permethrin (Sum Of Isomers)	Pyridate (Sum Of Pyridate, Its Hydrolysis Product Cl 9673 (6-Chloro-4-Hydroxy-3-Phenylpyridazin) And Hydrolysable Conjugates Of Cl 9673 Expressed As Pyridate)
Metazachlor: Sum Of Metabolites 479m04, 479m08, 479m16, Expressed As Metazachlor	Perthan	Pyrimethanil
Methabenzthiazuron	Phenkapton	Pyriofenone
Methacrifos	Phenmedipham	Pyriproxyfen
Methamidophos	Phenthoate	Quinalphos
Methfuroxam	Phorate (Sum Of Phorate, Its Oxygen Analogue And Their Sulfones Expressed As Phorate)	Quinlorac
Methidathion	Phosalone	Quinmerac
Methiocarb (Sum Of Methiocarb And Methiocarb Sulfoxide And Sulphone Expressed As Methiocarb)	Phosolan	Quinoxifen
Methomyl E Thiodicarb (Sum Of Methomyl And Thiodicarb Expressed As Methomyl)	Phosmet (Phosmet And Phosmet Oxon Expressed As Phosmet)	Quintozene (Sum Of Quintozene And Pentachloro-Aniline Expressed As Quintozene)
Methoxychlor	Phosphamidon	Quizalofop (sum of quizalofop, its salts, its esters (including propaquizafop) and its conjugates, expressed as quizalofop (any ratio of constituent isomers))
Methoxyfenozide	Phoxim	Rimsulfuron
Metobromuron	Picolinafen	Rotenone
Metolachlor And S-Metolachlor (Metolachlor Including Other Mixtures Of Constituent Isomers Including S-Metolachlor (Sum Of Isomers))	Picoxystrobin	Sedaxane
Metolcarb	Pinoxaden	Sethoxydim (Sum Of Sethoxydim And Clethodim Including Degradation Products Calculated As Sethoxydim)
Metoxuron	Piperonyl Butoxide	Siduron
Metrafenone	Pirifenox	Silthiofam
Methribuzin	Pirimicarb	Spinosad (Spinosad, Sum Of Spinosyn A And Spinosyn D)
Metsulfuron Methyl	Pirimiphos-Ethyl	Spirodiclofen
Mevinphos (Sum Of E-And Z-Isomers)	Pirimiphos-Methyl	Spiromesifen
Mirex	Primisulfuron	Spirotetramat And Its 4 Metabolites Byi08330-Enol, Byi08330-Ketohydroxy, Byi08330-Monohydroxy, And Byi08330 Enol-Glucoside, Expressed As Spirotetramat
Monocrotophos	Pirimitate	Spiroxamine
Monolinuron	Prochloraz (Sum Of Prochloraz And Its Metabolites Containing The 2,4,6-Trichlorophenol Moiety Expressed As Prochloraz)	Sulcoltrione
Myclobutanyl	Procymidone	Sulfentrazone
Naled	Profenofos	Sulfotep
Napropamide	Profuralin	Sulfoxaflor (sum of isomers)
Neburon	Profoxydim	Sulprofos
Nicosulfuron	Promecarb	Tau-Fluvalinate
Nitenpyram	Propachlor (Oxalinic Derivate Of Propachlor, Expressed As Propachlor)	Tebuconazole
Nitralin	Propamocarb (Sum Of Propamocarb And Its Salts Expressed As Propamocarb)	Tebufenozide
Nitrofen	Propanil	Tebufenpirad
Nitrothral-Isopropyl	Propaquizafop (sum of quizalofop, its salts, its esters (including propaquizafop) and its conjugates, expressed as quizalofop (any ratio of constituent isomers))	Tecnazene
Norflurazon	Propargite	Teflubenzuron
Novaluron	Propetamphos	Tefluthrin
Nuarimol	Propham	Tepraloxymid (Sum Of Tepraloxymid And Its Metabolites That Can Be Hydrolysed Either To The Moiety 3-(Tetrahydro-Pyran-4-Yl)-Glutaric Acid Or To The Moiety 3-Hydroxy-(Tetrahydro-Pyran-4-Yl)-Glutaric Acid, Expressed As Tepraloxymid)
Ofurace	Propiconazole	Terbacil
Omethoate	Propoxur	Terbufos
Oxadiazon	Propyzamide	Tetrachlorvinphos
Oxadixyl	Proquinazid	Tetraconazole
Oxamyl	Prosulfocarb	Tetradifon
Oxathiapiprolin	Prosulfuron	Tetramethrin
Oxifuorfen	Prothioconazole: prothioconazole-desithio (sum of isomers)	Tetrasul
Oxydemeton-Methyl (Sum Of Oxydemeton Methyl And Demeton S-Methylsulphone Expressed As Oxydemeton Methyl)	Prothiofos	Thiabendazole
Paclbutrazol	Prothoate	Thiacloprid
Parathion Ethyl	Pyraclostrobin	Thiamethoxam
Parathion Methyl (Sum Of Parathion-Methyl And Paraoxon-Methyl Expressed As Parathion Methyl)	Pyraflufen-ethyl	Thidiazuron
Pebulate	Pyrazophos	Thifensulfuron-Methyl

TABELLA 1 - Elenco Principi Attivi Multiresiduale QuEchERS (UNI EN 15662:2018) Livello Esteso		
Thiocyclam		
Thiofanox		
Thiometon		
Thiophanate Methyl		
Tolclofos Metile		
Tolyfluanide (Sum Of Tolyfluanid And Dimethylaminosulfotoluidide Expressed As Tolyfluanid)		
Tralomethrin		
Transfluthrin		
Triadimefon And Triadimenol (Sum Of Triadimefon And Triadimenol)		
Triallate		
Triasulfuron		
Triazamate		
Triazophos		
Tribenuron Methyl		
Trichlorfon		
Trichloronat		
Triclopyr		
Tricyclazole		
Tridemorph		
Trifloxystrobin		
Triflumizole: Triflumizole And Metabolite Fm-6-1 (N-(4-Chloro-2-Trifluoromethylphenyl)-N-Propoxyacetamide), Expressed As Triflumizole		
Triflururon		
Trifluralin		
Triflusulfuron Methyl		
Triforina		
Triticonazole		
Uniconazole		
Valifenalate		
Vamidothion		
Vinclozolin		
Zoxamide		

* Prova non accreditata Accredia

L'analisi Multiresiduale Livello Esteso è accreditata anche con metodi MIP 01 2020 rev. 5 e MIP 15 2020 rev. 5 applicabili a tabacco, miele e prodotti alimentari dell'alveare, terreni, acqua, foglie e parti delle piante).

L'anagrafica in TABELLA 1 è riferibile anche all'analisi Multiresiduale QuEChERS AO (Animal Origin) (non accreditata Accredia), metodo MIP 226 2016 rev. 00 (QuEChERS AO).

TABELLA 2 – GRUPPI SINGOLI O IN AGGIUNTA ALLA MULTIRESIDUALE QueChERS

1. DISERBANTI TRIAZINICI (UNI EN 15662:2018)							
Cyanazine	Dipropetryn	Isomethiazin	Prometon	Propazina	Simazina	Terbumeton	Terbutrina
Desmetryn	Hexazinone	Methoprotryn	Prometrina	Secbumeton	Simetrina	Terbutilazina	Terbutilazina desetil

2. AUXINE (UNI EN 15662:2018)							
1-naphthol	2,4-DB (Sum Of 2,4-DB, Its Salts, Its Esters And Its Conjugates, Expressed As 2,4-DB)	2,4,5-T (Sum Of 2,4,5-T, Its Salts And Esters, Expressed As 2,4,5-T)	2,4,5-TB	3,4-DA	3,4-DB	3,4-DP	4-CPA (4-Chlorophenoxyacetic acid = PCPA)
4-CPB	4-CPP	BNOA (2-Naphthoxyacetic acid)	IAA	IBA	NAA, NAD - Naphthylacetamide and 1-naphthylacetic acid (sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid) B11	Naphthaleneacetamide	Potassium naphthenate

3. FUMIGANTI (MIP 102 2011 Rev.0 – TECNICA ANALITICA GC-MS)							
1,2 Dibromoethane (ethylene dibromide)*	1,2 Dichloroethane (ethylene dichloride)*	1,3 Dichloropropene*	Tetrachloromethane*				

4. ALTRI GRUPPO 2 (UNI EN 15662:2018)							
3,4,5-Trimethacarb	Cloquintocet mexyl	Fuberidazole	Landrin (2,3,5-Trimethacarb)	Nitrapyrin			
Antraquinone	Crimidine	Flumetralin	Mefenpyr diethyl	Isoxadifen-ethyl			

5. STANNORGANICI (UNI EN 15662:2018)							
Azocyclotin	Cyexatin	Fenbutatin ossido	Fentin acetato	Fentin idrossido			

TABELLA 3 – DITIOCARBAMMATI

DETERMINAZIONE	TECNICA ANALITICA	METODO
Ditiocarbammati (ditiocarbammati espressi in CS ₂ , comprendenti maneb, mancozeb, metiram, propineb, firam e ziram)	(Gaschromatography – CS ₂)	UNI EN 12396-2:1999

* Prova non accreditata Accredia

TABELLA 4 – SINGOLE DETERMINAZIONI QuPpe

DETERMINAZIONE	TECNICA ANALITICA	METODO
1,2,4-Triazole	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 8 2021
Triazole-acetic acid	LC-MS/MS	
Triazole-lactic acid	LC-MS/MS	
Triazole-alanine	LC-MS/MS	
Cyanuric acid	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 1.3 2021
Phosphonic Acid	LC-MS/MS	
AMPA	LC-MS/MS	
Bialaphos	LC-MS/MS	
Chlorate	LC-MS/MS	
Ethephon	LC-MS/MS	
Fosetyl-Aluminium (sum fosetyl + phosphorous acid and their salts, expressed as Fosetyl-Aluminium)	LC-MS/MS	
Glyphosate	LC-MS/MS	
Glufosinate-Ammonium (sum of glufosinate, its salts, MPP and NAG expressed as glufosinate equivalents)	LC-MS/MS	
HEPA	LC-MS/MS	
Maleic Hydrazide	LC-MS/MS	
MPPA	LC-MS/MS	
N-Acetyl-Glufosinate	LC-MS/MS	
Perchlorate	LC-MS/MS	
Diffuoroacetic acid (DFA acid)	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 9 2021
Trifluoroacetic acid (TFA acid)	LC-MS/MS	
Amitral	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 4.2 2021
Cyromazine	LC-MS/MS	
Chlormequat	LC-MS/MS	
Daminozide	LC-MS/MS	
Diethanolamine	LC-MS/MS	
Difenzoquat	LC-MS/MS	
ETU	LC-MS/MS	
Melamine	LC-MS/MS	
Mepiquat	LC-MS/MS	
Morpholin	LC-MS/MS	
Nicotine	LC-MS/MS	
Propamocarb	LC-MS/MS	
PTU	LC-MS/MS	
Triethanolamine	LC-MS/MS	
Glyphosate Trimesium (Trimethylsulfonium-Cation)	LC-MS/MS	
Bromuri	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 1.4 2021
Diquat	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 4.1 2021
Paraquat	LC-MS/MS	
Kasugamycin	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 6 2021
Streptomycin	LC-MS/MS	

TABELLA 5 – SINGOLE DETERMINAZIONI

DETERMINAZIONE	TECNICA ANALITICA	METODO
1-Methylcyclopropene*	GC-MS	MIP 104 2011 rev. 0
1-(3,4-Dichlorophenyl)Urea	LC-MS/MS	UNI EN 15662:2018
1-(3,4-Dichlorophenyl)-3-methylurea	LC-MS/MS	UNI EN 15662:2018
1,4- Dimetilnaftalene	LC-MS/MS	UNI EN 15662:2018
3,4-Dichloroaniline	LC-MS/MS	UNI EN 15662:2018
3,5 Dichloroaniline	LC-MS/MS	UNI EN 15662:2018
4-chloro-3-methylphenol	LC-MS/MS	UNI EN 15662:2018
5-Hydroxy imidacloprid	LC-MS/MS	UNI EN 15662:2018
6-chloronicotinic acid	LC-MS/MS	UNI EN 15662:2018
Allethrin	LC-MS/MS	UNI EN 15662:2018
Aminopyralid	LC-MS/MS	UNI EN 15662:2018
Amisulbron	LC-MS/MS	UNI EN 15662:2018
Binapacryl	LC-MS/MS	UNI EN 15662:2018
Bioresmethrin	LC-MS/MS	UNI EN 15662:2018
Bromuro di metile (da Reg. europeo analizzato ed espresso come Bromuro)	LC-MS/MS	CVUA EU RL-SRM QuPpe Vers 12 met 1.4 2021
Butylate	LC-MS/MS	UNI EN 15662:2018
Carbon Disulphide* (vd. Ditiocarbammati)	GC-MS	MIP 276 2018 rev. 0
Carfentrazone-ethyl	LC-MS/MS	UNI EN 15662:2018
Cartap	LC-MS/MS	UNI EN 15662:2018
Chlorophacinone	LC-MS/MS	UNI EN 15662:2018
Cycloxydim including degradation and reaction products which can be determined as 3-(3 thianyl) glutaric acid S-dioxide and/or 3-hydroxy-3-(3 thianyl) glutaric acid S-dioxide or methyl esters thereof, calculated in total as cycloxydim	LC-MS/MS	UNI EN 15662:2018
Cyflumetofen	LC-MS/MS	UNI EN 15662:2018
Cyrosulfamide	LC-MS/MS	UNI EN 15662:2018
Dicamba	LC-MS/MS	UNI EN 15662:2018
Diclosulam	LC-MS/MS	UNI EN 15662:2018
Dinotefuran	LC-MS/MS	UNI EN 15662:2018
Dimepiperate	LC-MS/MS	UNI EN 15662:2018
Dinoseb (sum of dinoseb, its salts, dinoseb-acetate and binapacryl, expressed as dinoseb)	LC-MS/MS	UNI EN 15662:2018
Endothal*	LC-MS/MS	MIP 242 2017 rev. 00
Flumethrin	LC-MS/MS	UNI EN 15662:2018
Fluopyram-Benzamide	LC-MS/MS	UNI EN 15662:2018
Fluopyram-N-oxide	LC-MS/MS	UNI EN 15662:2018
Fluopyram NAA	LC-MS/MS	UNI EN 15662:2018
Fluopyram PCA	LC-MS/MS	UNI EN 15662:2018
Gibberellic Acid	LC-MS/MS	UNI EN 15662:2018
Hymexazol	LC-MS/MS	UNI EN 15662:2018
Imazamethabenz Methyl	LC-MS/MS	UNI EN 15662:2018
Imidacloprid-olefin	LC-MS/MS	UNI EN 15662:2018
Matrine	LC-MS/MS	UNI EN 15662:2018
Mesotrione	LC-MS/MS	UNI EN 15662:2018
Metaldehyde*	LC-MS/MS	MIP 124 2011 rev. 0
Metconazolo (somma degli isomeri)	LC-MS/MS	UNI EN 15662:2018
Methoprene*	LC-MS/MS	MIP 125 2011 rev. 0
Milbemectin (sum of MA4+8,9Z-MA4, expressed as milbemectin)*	LC-MS/MS	UNI EN 15662:2018
Molinate	LC-MS/MS	UNI EN 15662:2018
Monuron	LC-MS/MS	UNI EN 15662:2018
N-2,4-Dimethylphenyl-N'-Methylformamide	LC-MS/MS	UNI EN 15662:2018
Oryzalin	LC-MS/MS	UNI EN 15662:2018
Oxaryl Oxime	LC-MS/MS	UNI EN 15662:2018
Oxyne-Cu	LC-MS/MS	UNI EN 15662:2018
Oxymatrine*	LC-MS/MS	MIP 173 2014 Rev. 0
Penoxulam	LC-MS/MS	UNI EN 15662:2018
Pentachloranisole	GC-MS	UNI EN 15662:2018
Pentachlorobenzene	GC-MS	UNI EN 15662:2018
Pentachlorophenol	GC-MS	UNI EN 15662:2018
Phosphane and phosphide salts (sum of phosphane and phosphane generators (relevant phosphide salts), determined and expressed as phosphane)*	GC-MS	MIP 129 2011 rev. 0

TABELLA 5 – SINGOLE DETERMINAZIONI

DETERMINAZIONE	TECNICA ANALITICA	METODO
Picaridin	LC-MS/MS	UNI EN 15662:2018
Prohexadione (prohexadione (acid) and its salts expressed as prohexadione-calcium)*	LC-MS/MS	MIP 130 2011 rev. 0
Propineb (expressed as propiendiamine)	LC-MS/MS	UNI EN 15662:2018
Propoxycarbazone (Propoxycarbazone, Its Salts And 2-Hydroxypropoxycarbazone Expressed As Propoxycarbazone)	LC-MS/MS	UNI EN 15662:2018
Pymetrozine	LC-MS/MS	UNI EN 15662:2018
S-Abscisic Acid*	LC-MS/MS	UNI EN 15662:2018
Saflufenacil	LC-MS/MS	UNI EN 15662:2018
Silafuofen	LC-MS/MS	UNI EN 15662:2018
Spinetoram	LC-MS/MS	UNI EN 15662:2018
Sulphur	GC-MS	UNI EN 15662:2018
Tebutam	LC-MS/MS	UNI EN 15662:2018
Tebuthiuron	LC-MS/MS	UNI EN 15662:2018
Tepp (Tetraethyl Pyrophosphate)	LC-MS/MS	UNI EN 15662:2018
Terbufos Sulfone	LC-MS/MS	UNI EN 15662:2018
Terbufos Sulfoxide	LC-MS/MS	UNI EN 15662:2018
Thionazin	LC-MS/MS	UNI EN 15662:2018
Tiram	LC-MS/MS	UNI EN 15662:2018
Tolfenpyrad	LC-MS/MS	UNI EN 15662:2018
Toxaphene	GC-MS	UNI EN 15662:2018
Tralkoxydim	LC-MS/MS	UNI EN 15662:2018
Triamiphos	LC-MS/MS	UNI EN 15662:2018
Ziram	LC-MS/MS	UNI EN 15662:2018

° Analisi vincolata alla disponibilità dello standard

* Prova non accreditata Accredia

TABELLA 6 – Elenco Principi Attivi BABY FOOD (Metodo di prova UNI EN 15662:2018 - L.O.Q. 0,003 mg/Kg)

Aldrin e dieldrin (espressi come dieldrin)
Cadusafos
Demeton-S-methyl
Demeton-S-methyl sulfone
Demeton-S-methyl, Demeton-S-methyl sulfone, oxydemeton-methyl (combinati, espressi come demeton-S-methyl)
Disulfoton (somma di disulfoton, disulfoton sulfoxide e disulfoton sulfone espressi come disulfoton)
Endrin
Ethoprophos
Fensulfothion (somma di fensulfothion, fensulfothion ossigeno-analogo e i loro solfoni, espressi come fensulfothion)
Fentin (espresso come catione triphenyltin)
Fipronil (somma di fipronil e fipronil-desulfinil, espresso come fipronil)
Haloxifop (somma di haloxifop, i suoi sali ed esteri inclusi i coniugati, espressi come haloxifop)
Heptachlor e trans-heptachlor epossido (espressi come heptachlor)
Hexachlorobenzene
Nitrofen
Omethoate
Oxydemeton-methyl
Propineb e propileneurea (somma di propineb e propileneurea)
Terbufos (somma di terbufos il suo suo sulfoxide e sulfone, espressi come terbufos)

CANNABINOIDI

TABELLA 7 – CANNABINOIDI

DETERMINAZIONE	TECNICA ANALITICA	METODO
TRANS-DELTA-9-Tetrahydrocannabinol (Dronabinol) (Δ^9 THC)		
TRANS-DELTA-9-THC carboxylic acid A (THCA-A)		
THC Totale		
CANNABIDIOL (CBD)		
CANNABIDIOLIC ACID (CBDA)		
CANNABIDIOL (TOTAL)		
CBD Totale		
CANNABINOL (CBN)		
CANNABIGEROL (CBG)		
(-)-DELTA-8-THC (Δ^8 THC)		

LC/MS-MS

MIP 292 2019 rev. 0

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ALTRI CONTAMINANTI

TABELLA 8 – ACRILAMMIDE

DETERMINAZIONE	TECNICA ANALITICA	METODO
Acrilammide	LC-ESI/MS-MS	UNI EN 15662:2018

TABELLA 9 – SALI DI AMMONIO QUATERNARIO (QAC)

DETERMINAZIONE	METODO
Benzyltrimethylammonium Chloride (BAC-C8)	
Benzalkonium chloride, Benzyltrimethyldecylammonium Chloride (BAC-C10)	
Benzyltrimethyldodecylammonium Chloride (BAC-C12)	
Benzyltrimethyltetradecylammonium Chloride (BAC-C14)	
Benzyltrimethylhexadecylammonium Chloride (BAC-C16)	
Benzyltrimethyloctadecylammonium Chloride (BAC-C18)	
Cation Dimethyldioctylammonium (DDAC-C8)	
Didecyltrimethylammonium Chloride (DDAC-C10)	
Didodecyltrimethylammonium chloride (DDAC-C12)	

UNI EN 15662:2018

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TABELLA 10 – TOSSINE	
DETERMINAZIONE	METODO
Aflatossine B1, B2, G1, G2, Somma Aflatossine B1+B2+G1+G2	MIP 20 2021 rev. 06
Ocratossina A	MIP 05 2021 rev. 04
Deossinivalenolo (Don)	MIP 19 2021 rev. 04
Zearalenone	MIP 17 2021 rev. 04
Fumonisine (B1, B2)	MIP 18 2021 rev. 04
Patulina	MIP 28 2021 rev. 01
T 2 e HT 2	MIP 19 2021 rev. 04
Aflatossina M1*	MIP 225 2016 Rev. 0
Tenuazonic acid* (tossine di Alternaria)	MIP 100 2013 Rev. 0
Alternariol* (tossine di Alternaria)	MIP 100 2013 Rev. 0
Alternariol monomethyl ether* (tossine di Alternaria)	MIP 100 2013 Rev. 0
Tentoxin* (tossine di Alternaria)	MIP 100 2013 Rev. 0

TABELLA 11 – AMMINE BIOGENE	
DETERMINAZIONE	METODO
2-phenylethylamine	MIP 29 2021 rev. 01
Cadaverine	
Histamine	
Putrescine	
Serotonin	
Spermidine	
Spermine	
Tryptamine	
Tryptophan	
Tyramine	

TABELLA 12 – METALLI		
DETERMINAZIONE	TECNICA ANALITICA	METODO
Alluminio	ICP-MS	MIP 30 2017 rev. 0
Antimonio*	ICP-MS	MIP 30 2017 rev. 0
Arsenico	ICP-MS	UNI EN 15763:2010 + UNI EN 13805:2014
Bario*	ICP-MS	MIP 30 2017 rev. 0
Boro*	ICP-MS	MIP 30 2017 rev. 0
Cadmio	ICP-MS	UNI EN 15763:2010 + UNI EN 13805:2014
Calcio	ICP-MS	MIP 30 2017 rev. 0
Cobalto*	ICP-MS	MIP 30 2017 rev. 0
Cromo	ICP-MS	MIP 30 2017 rev. 0
Ferro	ICP-MS	MIP 30 2017 rev. 0
Magnesio	ICP-MS	MIP 30 2017 rev. 0
Manganese	ICP-MS	MIP 30 2017 rev. 0
Mercurio	ICP-MS	UNI EN 15763:2010 + UNI EN 13805:2014
Nichel	ICP-MS	MIP 30 2017 rev. 0
Piombo	ICP-MS	UNI EN 15763:2010 + UNI EN 13805:2014
Potassio	ICP-MS	MIP 30 2017 rev. 0
Rame	ICP-MS	MIP 30 2017 rev. 0
Selenio	ICP-MS	MIP 30 2017 rev. 0
Sodio	ICP-MS	MIP 30 2017 rev. 0
Stagno	ICP-MS	MIP 30 2017 rev. 0
Stronzio	ICP-MS	MIP 30 2017 rev. 0
Vanadio*	ICP-MS	MIP 30 2017 rev. 0
Zinco	ICP-MS	MIP 30 2017 rev. 0

* Prova non accreditata Accredia

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COLORANTI SINTETICI

TABELLA 13 – COLORANTI	
DETERMINAZIONE	TECNICA ANALITICA
4(5)-Methylimidazole*	LC/MS/MS
Allura Red AC*	
Carmoisine*	
Curcumin*	
Dimethyl yellow*	
Orange II*	
Para Red*	
Quinoline Yellow 2SF*	
Rodamine B*	
Sudan I, II, III, IV*	
Sunset Yellow FCF	
Tartrazina [E102]*	

ANALISI NUTRIZIONALI ED ALLERGENI

TABELLA 14 – TABELLA NUTRIZIONALE EUROPEA		
DETERMINAZIONE	TECNICA ANALITICA	METODO
Calorie (Valore energetico (Kcal), Valore energetico (KJ))*	Calcolo	MIP 53 2012 Rev. 01
Grassi (Acidi grassi monoinsaturi, Acidi grassi polinsaturi, Acidi grassi saturi)*	Soxhlet+Gascromatografia	MIP 58 2012 Rev. 01
Proteine (Nx6,25)*	Kjeldahl	Rapporto ISTISAN 96/34 Pag. 13
Carboidrati*	Calcolo	MIP 103 2013 Rev. 0
Zuccheri*	Titolazione	MIP 154 2013 Rev. 0
Fibra*	Gravimetrico Enzimatico	MIP 33 2012 Rev. 0
Sodio	ICP-MS	MIP 30 2017 rev. 0

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TABELLA 15 – TABELLA NUTRIZIONALE AMERICANA		
DETERMINAZIONE	TECNICA ANALITICA	METODO
Calorie (Valore energetico (Kcal), Valore energetico (KJ))*	Calcolo	MIP 53 2012 Rev. 01
Grassi (Acidi grassi monoinsaturi, Acidi grassi polinsaturi, Acidi grassi saturi, Acidi grassi trans)*	Soxhlet+Gascromatografia	MIP 58 2012 Rev. 01
Colesterolo*	LC/MS	MIP 157 2013 Rev. 0
Sodio	ICP-MS	MIP 30 2017 rev. 0
Carboidrati*	Calcolo	MIP 103 2013 Rev. 0
Zuccheri*	Titolazione	MIP 154 2013 Rev. 0
Fibra*	Gravimetrico Enzimatico	MIP 33 2012 Rev. 0
Proteine (Nx6,25)*	Kjeldahl	Rapporto ISTISAN 96/34 Pag. 13
Vitamina D*	LC/MS	MIP 237 2017 rev. 00
Calcio	ICP-MS	MIP 30 2017 rev. 0
Ferro	ICP-MS	MIP 30 2017 rev. 0
Potassio	ICP-MS	MIP 30 2017 rev. 0

TABELLA 16 – ALLERGENI	
DETERMINAZIONE	METODO / TECNICA ANALITICA
Glutine da frumento, segale e orzo	AOAC 2012.01
Glutine	MIP 311 2021 rev. 1
Soia	MIP 257 2021 rev. 01
Mandorla*	MIP 344 2021 rev. 00
Senape*	MIP 356 2021 rev. 00
Anidride Solforosa	DM 03/02/1989 SO n 51 GU n 168 20/07/1989 Met 30A

N.B. Il laboratorio è in grado di determinare anche altri allergeni previa comunicazione di numero di campioni, matrici ed allergene di interesse.

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ACQUE

TABELLA 17 – ANALISI CHIMICO/FISICA DELLE ACQUE destinate al CONSUMO UMANO (D-Lgs. 31/2001)	
DETERMINAZIONE	METODO
pH	APAT CNR IRSA 2060 Man 29 2003
Conducibilità	APAT CNR IRSA 2030 Man 29 2003
Residuo fisso	APAT CNR IRSA 2090 Man 29 2003
Durezza	APAT CNR IRSA 2040 Man 29 2003
Carbonati (alcalinità)	APAT CNR IRSA 2010 Man 29 2003
Bicarbonati (alcalinità)	APAT CNR IRSA 2010 Man 29 2003
Cloruri	APAT CNR IRSA 4020 Man 29 2003
Bromuri	APAT CNR IRSA 4020 Man 29 2003
Solfati	APAT CNR IRSA 4020 Man 29 2003
Nitriti	APAT CNR IRSA 4020 Man 29 2003
Nitrati	APAT CNR IRSA 4020 Man 29 2003
Fosfati	APAT CNR IRSA 4020 Man 29 2003
Fluoruri	APAT CNR IRSA 4020 Man 29 2003
Ammoniaca	APAT CNR IRSA 4030 Man 29 2003
Sodio	APAT CNR IRSA 3270 Man 29 2003
Potassio	APAT CNR IRSA 3240 Man 29 2003
Calcio	APAT CNR IRSA 3130 Man 29 2003
Magnesio	APAT CNR IRSA 3180 Man 29 2003
Ferro	APAT CNR IRSA 3160 Man 29 2003
Indice di S.A.R.*, S.A.R. Modificato*, Limite di Todd* (solo per acque destinate ad uso irriguo)	D.M. 23/03/2000 G.U. n. 87 del 13/04/2000

TABELLA 18 – ANALISI CHIMICO/FISICA E MICROBIOLOGICA DELLE ACQUE DI SCARICO in ACQUE SUPERFICIALI ed in RETE FOGNARIA (D.Lgs. 152/06 Allegati alla parte terza Allegato 5 Tab. 3)	
DETERMINAZIONE	METODO
pH	APAT CNR IRSA 2060 Man 29 2003
Colore*	APAT CNR IRSA 2020 A Man 29 2003
Odore*	APAT CNR IRSA 2050 Man 29 2003
Materiali grossolani*	Legge 319/76
Solidi sospesi totali*	APAT CNR IRSA 2090 B Man 29 2003
Richiesta Biochimica di Ossigeno (BOD5)*	APAT CNR IRSA 5120 Man 29 2003
Domanda Chimica di Ossigeno (COD)*	APAT CNR IRSA 5130 Man 29 2003
Alluminio*	MIP 337 2021 rev. 00
Arsenico*	MIP 337 2021 rev. 00
Bario*	MIP 337 2021 rev. 00
Boro*	MIP 337 2021 rev. 00
Cadmio*	MIP 337 2021 rev. 00
Cromo totale*	MIP 337 2021 rev. 00
Ferro	APAT CNR IRSA 3160 Man 29 2003
Manganese*	MIP 337 2021 rev. 00
Mercurio*	MIP 337 2021 rev. 00
Nichel*	MIP 337 2021 rev. 00
Piombo*	MIP 337 2021 rev. 00
Rame*	MIP 337 2021 rev. 00
Selenio*	MIP 337 2021 rev. 00
Zinco*	MIP 337 2021 rev. 00
Cloro attivo libero*	APAT CNR IRSA 4080 Man 29 2003
Solfuri*	APAT CNR IRSA 4160 Man 29 2003
Solfati (come SO ₄)	APAT CNR IRSA 4020 Man 29 2003
Cloruri	APAT CNR IRSA 4020 Man 29 2003
Fluoruri	APAT CNR IRSA 4020 Man 29 2003
Fosforo totale*	APAT CNR IRSA 4110 A1 Man 29 2003
Azoto Ammoniacale (come NH ₄)	APAT CNR IRSA 4030 Man 29 2003
Azoto Nitroso (come N)	APAT CNR IRSA 4020 Man 29 2003
Azoto Nitrico (come N)	APAT CNR IRSA 4020 Man 29 2003
Grassi e oli animali e vegetali*	APAT CNR IRSA 5160 A Man 29 2003
Conta di Escherichia coli	APAT CNR IRSA 7030 C Man 29 200
Saggio tossicità acuta su Daphnia Magna*	APAT CNR IRSA 8020 Man 29 2003

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TABELLA 19 – ANALISI CHIMICO/FISICA E MICROBIOLOGICA DELLE ACQUE DI SCARICO SU SUOLO
 (D.Lgs. 152/06 Allegati alla parte terza Allegato 5 Tab. 4)

DETERMINAZIONE	METODO
pH	APAT CNR IRSA 2060 Man 29 2003
Materiali grossolani*	Legge 319/76
Solidi sospesi totali*	APAT CNR IRSA 2090 B Man 29 2003
Richiesta Biochimica di Ossigeno (BOD5)*	APAT CNR IRSA 5120 Man 29 2003
Domanda Chimica di Ossigeno (COD)*	APAT CNR IRSA 5130 Man 29 2003
Alluminio*	MIP 337 2021 rev. 00
Arsenico*	MIP 337 2021 rev. 00
Bario*	MIP 337 2021 rev. 00
Boro*	MIP 337 2021 rev. 00
Cromo totale*	MIP 337 2021 rev. 00
Ferro	APAT CNR IRSA 3160 Man 29 2003
Manganese*	MIP 337 2021 rev. 00
Nichel*	MIP 337 2021 rev. 00
Piombo*	MIP 337 2021 rev. 00
Rame*	MIP 337 2021 rev. 00
Selenio*	MIP 337 2021 rev. 00
Stagno*	MIP 337 2021 rev. 00
Vanadio*	MIP 337 2021 rev. 00
Zinco*	MIP 337 2021 rev. 00
Solfuri*	APAT CNR IRSA 4160 Man 29 2003
Solfati	APAT CNR IRSA 4020 Man 29 2003
Cloro attivo libero*	APAT CNR IRSA 4080 Man 29 2003
Cloruri	APAT CNR IRSA 4020 Man 29 2003
Fluoruri	APAT CNR IRSA 4020 Man 29 2003
Saggio tossicità acuta su Daphnia Magna*	APAT CNR IRSA 8020 Man 29 2003
Conta di Escherichia coli	APAT CNR IRSA 7030 C Man 29 200

MACRO E MICROELEMENTI DELLE FOGLIE

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TABELLA 20 – ANALISI FOGLIARE*

DETERMINAZIONE	METODO
MACROELEMENTI	
- Azoto	Analisi fogliare - MIP A
- Fosforo	Analisi fogliare - MIP B
- Potassio	Analisi fogliare - MIP C
- Calcio	
- Magnesio	
MICROELEMENTI	
- Boro	Analisi fogliare - MIP D
- Manganese	Analisi fogliare - MIP C
- Rame	
- Zinco	
- Ferro	
RAPPORTI NUTRITIVI	
- Azoto/Potassio	Analisi fogliare (da calcolo)
- Azoto/Fosforo	
- Potassio/Magnesio	
- Fosforo/Zinco	
- Ferro/Manganese	
INTENSITÀ NUTRITIVA	
- N + P+ K	Analisi fogliare (da calcolo)
EQUILIBRIO NUTRITIVO	
- Azoto (%)	Analisi fogliare (da calcolo)
- Fosforo (%)	
- Potassio (%)	

* Prova non accreditata Accredia

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ANALISI CHIMICO-FISICA DEI SUOLI

TABELLA 21 – ANALISI DEI TERRENI	
DETERMINAZIONE	METODO
Granulometria (Sabbia, Limo, Argilla, Classi di fessitura)	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo II.6
pH	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo III.1
Calcare totale	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Met V.1
Calcare attivo	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo V.2
Basi di scambio (Calcio, Magnesio, Potassio, Sodio)	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo XIII.5
Capacità di scambio cationico	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Met XIII.2 DM 25/03/2002 GU n° 84 10/04/2002
Sostanza organica	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo VII.3
Carbonio organico	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Metodo VII.3
Azoto totale	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 SO n° 185 Metodo XIV.2 + XIV.3 D.M. 25/03/2002 G.U. n° 84 del 10/04/2002
Conducibilità elettrica	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo IV.1
Fosforo assimilabile	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo XV.3
Boro solubile	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo XVI.1
Ferro assimilabile	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo IX.2
Manganese assimilabile	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Metodo IX.2
Rame, Zinco disponibile	D.M. 13/09/1999 - G.U. n. 248 del 21.10.1999 Metodo XII.1
Calcio, Magnesio, Potassio, Sodio scambiabile	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Met XIII.5
Carbonio/Azoto da calcolo*	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Metodo VII.3 + DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Met XIV.2 + XIV.3 DM 25/03/2002 GU n° 84 10/04/2002
Magnesio/Potassio da calcolo*	DM 13/09/1999 SO n° 185 GU n° 248 21/10/1999 Met XIII.5

NEW: RESIDUI DI FARMACI VETERINARI

TABELLA 22 – RESIDUI DI FARMACI VETERINARI NEGLI ALIMENTI		
CATEGORIE CHIMICHE ANALIZZATE	TECNICA ANALITICA	METODO
TETRACICLINE		
4-EPI-CHLORTETRACYCLINE*		
4-EPI-OXYTETRACYCLINE*		
4-EPI-TETRACYCLINE		
CHLORTETRACYCLINE*		
DEMECLOCYCLINE*		
DOXYCYCLINE*		
ISOTETRACYCLINE*		
LYMECICLINE*		
MINOCYCLINE*		
OXYTETRACYCLINE*		
ROLITETRACYCLINE*		
TETRACYCLINE		
SULFAMIDICI		
SULFADIAZINE		
SULFADIMETHOXINE	LC-MS-MS	MIP 350 2021 rev 0
SULFADOXINE		
SULFAMERAZINE		
SULFAMETHAZINE		
SULFAMETHIZOLE		
SULFAMETHOXAZOLE		
SULFAMETHOXYPYRIDAZINE		
SULFANILAMIDE*		
SULFATHIAZOLE		
SULFAQUINOXALINE		
MACROLIDI		
NEO SPIRAMYCIN I		
SPIRAMYCIN I		
SPIRAMYCIN		
TILMICOSIN		
TYLOSIN		

TYLOSIN A		
AMFENICOLI		
CHLORAMPHENICOL		
THIAMPHENICOL		
CHINOLONI		
SARAFLOXACIN		
PENICILLINE		
AMPICILLUN*		
NITROIMIDAZOLICI		
METRONIDAZOLE	LC-MS-MS	MIP 350 2021 rev 0
DIMETRIDAZOLE		
RONIDAZOLE		
POLIENI ANTIMICOTICI		
NATAMYCIN*		
PROMOTORI DI CRESCITA		
CARBADOX (CBX)*		
OLAQUINDOX (OLA)*		
COCCIDIOSTATICI		
NICARBAZIN*		

* Prova non accreditata Accredia

ANALISI MICROBIOLOGICHE

TABELLA 23 – ANALISI MICROBIOLOGICA DELLE ACQUE

DETERMINAZIONE	METODO
Conta di microrganismi vitali a 22°C	UNI EN ISO 6222:2001
Conta di microrganismi vitali a 36°C (solo per potabilità)	UNI EN ISO 6222:2001
Conta di Escherichia coli	UNI EN ISO 9308-1:2017
Conta di batteri coliformi	UNI EN ISO 9308-1:2017
Conta di Enterococchi intestinali	UNI EN ISO 7899-2:2003
Conta di Clostridium perfringens (spore comprese)	UNI EN ISO 14189:2016
Ricerca di Salmonella	Rapporto ISTISAN 2007/5 pag 105 MET ISS A 0118
Ricerca Listeria monocytogenes*	MIP 269 2018 rev. 00
Conta di Pseudomonas aeruginosa	UNI EN ISO 16266:2008
Conta di Coliformi fecali	APAT CNR IRSA 7020 B Man 29 2003
Conta di Coliformi totali	APAT CNR IRSA 7010 C Man 29 2003
Conta di Escherichia coli	APAT CNR IRSA 7030 C Man 29 2003

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TABELLA 24 – ANALISI MICROBIOLOGICA DEGLI ALIMENTI

DETERMINAZIONE	METODO
Conta di microrganismi a 30°C	UNI EN ISO 4833-1:2014
Conta di Escherichia coli beta - glucuronidase-positivi	ISO 16649-2:2001
Conta di Enterobacteriaceae	ISO 21528-2:2017
Conta di Coliformi	ISO 4832:2006
Conta di Bacillus cereus presunto	UNI EN ISO 7932:2020, UNI EN ISO 7932:2020/EC1:2020
Conta di Stafilococchi coagulasi positivi (Staphylococcus aureus e altre specie)	UNI EN ISO 6888-1:2018
Conta di Lieviti (Aw >0.95)	ISO 21527-1:2008
Conta di muffe (Aw >0.95)	ISO 21527-1:2008
Conta di Lieviti (Aw ≤0.95)	ISO 21527-2:2008
Conta di muffe (Aw ≤0.95)	ISO 21527-2:2008
Conta di Clostridium perfringens	UNI EN ISO 7937:2005
Ricerca di Salmonella spp.	UNI EN ISO 6579-1:2017
Ricerca di Listeria monocytogenes	UNI EN ISO 11290-1:2017
Conta di Listeria monocytogenes	UNI EN ISO 11290-2:2017
Conta anaerobi solfito riduttori*	ISO 15213:2003
Spore di anaerobi solfito riduttori*	ISO 15213:2003
Conta di Batteri lattici mesofili	ISO 15214:1998

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TABELLA 25 – ANALISI MICROBIOLOGICA SUPPORTI DA CAMPIONAMENTO SUPERFICI AMBIENTI DEL SETTORE ALIMENTARE

DETERMINAZIONE	METODO
Conta di microrganismi (Colonie a 30°C)*	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN 4833-1:2014
Conta Escherichia coli beta - glucuronidasi-positivi*	ISO 18593:2018 (escluso cap 7 e 8) + ISO 16649-2:2001
Conta di Enterobacteriaceae	ISO 18593:2018 (escluso cap 7 e 8) + ISO 21528-2:2017
Conta Coliformi	ISO 18593:2018 (escluso cap 7 e 8) + ISO 4832:2006
Conta Bacillus cereus presunto	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 7932:2005
Conta di Stafilococchi coagulasi positivi (Staphylococcus aureus e altre specie)*	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 6888-1:2018
Conta di Lieviti (Aw >0.95)*	ISO 18593:2018 (escluso cap 7 e 8) + ISO 21527-1:2008
Conta di muffe (Aw >0.95)*	ISO 18593:2018 (escluso cap 7 e 8) + ISO 21527-1:2008
Conta Clostridium perfringens	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 7937:2005
Ricerca di Salmonella spp.	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 6579-1:2017
Ricerca di Listeria monocytogenes*	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 11290-1:2017
Conta di Listeria monocytogenes*	ISO 18593:2018 (escluso cap 7 e 8) + UNI EN ISO 11290-2:2017

* Prova non accreditata Accredia

TABELLE QUANTITA' CAMPIONE

QUANTITA' CAMPIONE E TIPO CONTENITORE: ANALISI MICROBIOLOGICHE – Rif. PO22 rev. corrente

Prodotto	Analisi microbiologiche (pacchetto standard) tutti i parametri	Analisi di Listeria	Analisi di Salmonella	Tipo contenitore
Prodotti agroalimentari freschi o secchi	2 confezioni integre oppure 500 g	(Secondo Reg. CEE 2073/2005) 5 confezioni integre	(Secondo Reg. CEE 2073/2005) 5 confezioni integre	Buste sterili o confezioni integre
Acque di rete o clorate	1 litro ^(*)	1 litro ^(*)	1 litro ^(*)	Bottiglia sterile con fiosolfato
Acque di altra provenienza	1 litro ^(*)	1 litro ^(*)	1 litro ^(*)	Bottiglia sterile senza fiosolfato

QUANTITA' CAMPIONE: ANALISI CHIMICHE – Rif. Tabella 4 del D.M. 23 luglio 2003

Classificazione del prodotto	Esempi	Composizione dei campioni elementari da prelevare	Entità minima di ciascuna aliquota ^(**)
Prodotti freschi di piccole dimensioni Generalmente < 25 g l'unità	Bacche, piselli, olive	Unità intere o imballaggi, oppure unità prelevate mediante campionatore	1 Kg
Prodotti freschi di medie dimensioni generalmente 25-250 g l'unità	Mele, arance	Unità intere	1 Kg (almeno 10 unità)
Prodotti freschi di grandi dimensioni generalmente > 250 g l'unità	Cavoli, cetrioli, uva (grappoli)	Unità intere	2 Kg (almeno 5 unità)
Legumi da granella	Fagioli essiccati, piselli essiccati		1 Kg
Cereali	Riso, frumento		1 Kg
Frutti a guscio	Eccetto noci di cocco		1 Kg
Frutti a guscio	Noci di cocco		5 unità
Semi oleosi	Arachidi		0,5 Kg
Semi per bevande e dolciumi	Chicchi di caffè		0,5 Kg
Erbe fresche	Prezzemolo fresco	Unità intere	0,5 Kg
Erbe fresche	Altre erbe fresche	Unità intere	0,2 Kg
Spezie	Essiccate	Unità intere o unità prelevate mediante campionatore	0,1 Kg
Prodotti ad alto valore unitario		Imballaggi o unità prelevate mediante campionatore	0,1 Kg ^(**)
Prodotti solidi leggeri	Luppolo, tè, infuso di erbe	Unità imballate o unità prelevate mediante campionatore	0,2 Kg
Altri prodotti solidi	Pane, farina, frutta secca	Imballaggi o altre unità intere, oppure unità prelevate mediante campionatore	0,5 Kg
Prodotti liquidi	Olii vegetali, succhi	Unità imballate o unità prelevate mediante campionatore	0,5 Kg o 0,5 litri

^(*) Per ogni patogeno da ricercare (Listeria, Salmonella) occorre consegnare 1 litro di acqua in più rispetto alla quantità standard; utilizzare contenitori sterili secondo le indicazioni in tabella.

^(*) Contattare il laboratorio per concordare la quantità minima necessaria.

^(**) Contenitori puliti anche non sterili. La scelta del contenitore deve essere fatta in rapporto al tipo di campione da prelevare, allo stato fisico ed alle prove richieste; in ogni caso dovrà essere sufficientemente robusto e capiente - con chiusura che impedisca la fuoriuscita del contenuto - integro e pulito.

IMPORTANTE: Per ogni tipologia di analisi (chimiche, microbiologiche, allergeni, controllo qualità) inviare aliquote campione dedicate in opportuno imballo.

CONTATTARE IL LABORATORIO AL NUMERO 080.477.07.62 PER INFORMAZIONI INERENTI LE PROCEDURE DI CAMPIONAMENTO, LE TEMPERATURE DI TRASPORTO E LE MODALITÀ DI INVIO CAMPIONI.

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