

ΑΡΙΘΜΟΣ ΠΙΣΤΟΠΟΙΗΤΙΚΟΥ: 36999 - ΚΩΔΙΚΟΣ ΔΕΙΓΜΑΤΟΣ: 237534

ΠΙΣΤΟΠΟΙΗΤΙΚΟ ΔΟΚΙΜΗΣ
CERTIFICATE OF ANALYSIS

ΕΠΩΝΥΜΙΑ ΠΕΛΑΤΗ / **NAME OF CUSTOMER** : ΚΑΡΙΠΙΔΙΣ ΡΕΤΡΟΣ

ΔΙΕΥΘΥΝΣΗ / **ADDRESS**: - ΛΙΜΝΙ

ΤΗΛ / **TEL**: -

E-MAIL: -

ΗΜΕΡΟΜΗΝΙΑ ΔΕΙΓΜΑΤΟΛΗΨΙΑΣ / **DATE OF SAMPLING** : 2017-06-13

ΗΜΕΡΟΜΗΝΙΑ ΠΑΡΑΛΑΒΗΣ / **DATE OF RECEIPT** : 2017-06-13

ΗΜΕΡΟΜΗΝΙΑ ΕΝΑΡΞΗΣ ΑΝΑΛΥΣΗΣ / **START DATE OF ANALYSIS** : 2017-06-13

ΗΜΕΡΟΜΗΝΙΑ ΟΛΟΚΛΗΡΩΣΗΣ ΑΝΑΛΥΣΗΣ / **END DATE OF ANALYSIS** : 2017-06-18

ΕΡΓΑΣΤΗΡΙΑ / **LABORATORIES** : ΙΩΑΝΝΙΝΑ

ΔΕΙΓΜΑΤΟΛΗΨΙΑ ΑΠΟ / **SAMPLING BY** : ΠΕΛΑΤΗ / CUSTOMER

ΚΑΤΑΣΤΑΣΗ ΔΕΙΓΜΑΤΟΣ / **SAMPLE STATE** : ΚΑΝΟΝΙΚΗ / REGULARR

ΕΙΔΟΣ ΔΕΙΓΜΑΤΟΣ / **SAMPLE TYPE** : ORGANIC BLUEBERRY

ΚΩΔΙΚΟΣ / **CODE**: 237534

ΑΡΙΘΜΟΣ ΠΑΡΤΙΔΑΣ / **BATCH NUMBER**: ΚΑΡΙΠΙΔΙΣ ΡΕΤΡΟΣ / ΛΙΜΝΙ

Συνολικό πλήθος ουσιών: Total Number of Substances:	0 ΜΗ ΑΝΙΧΝΕΥΣΙΜΟ / NOT DETECTABLE
Εγκεκριμένες ουσίες: Approved substances :	-
Το δείγμα σύμφωνα με τις ουσίες που ελέγχθηκαν και με τα MRL είναι : The sample according to the substances that were tested and MRL is:	<u>Αποδεκτό</u> <u>Acceptable</u>

ΑΡΙΘΜΟΣ ΠΙΣΤΟΠΟΙΗΤΙΚΟΥ: 36999 - ΚΩΔΙΚΟΣ ΔΕΙΓΜΑΤΟΣ: 237534

ΑΝΑΛΥΣΕΙΣ ANALYSES	ΜΗΧΑΝΗΜΑ INSTRUMENT	ΜΕΘΟΔΟΣ METHOD	ΑΠΟΤΕΛΕΣΜΑ RESULT	ΟΡΙΟ ΑΝΑΦΟΡΑΣ RL	ΑΟΚ MRL*	ΜΟΝΑΔΑ UNIT
Fosetyl	LC-MS/MS	XI -71 Single method for the analysis of Fosetyl-Al, Phosphonic acid	< RL	0,05		mg/kg
Phosphonic acid (expressed as fosetyl)	LC-MS/MS	XI -71 Single method for the analysis of Fosetyl-Al, Phosphonic acid	< RL	0,05		mg/kg
Fosetyl-Al (sum of fosetyl, phosphonic acid and their salts, expressed as fosetyl)	LC-MS/MS	XI -71 Single method for the analysis of Fosetyl-Al, Phosphonic acid	< RL	0,1	2	mg/kg
Glyphosate	LC-MS/MS	Highly polar herbicides - LCMSMS (FMOC)	< RL	0,1	0,1	mg/kg
AMPA	LC-MS/MS	Highly polar herbicides - LCMSMS (FMOC)	< RL	0,1	-	mg/kg
PESTICIDES LCMSMS (446 subst.)	LC-MS/MS	QuEChERS-method, XI-08	< RL except table I	0,01	(table I)	mg/kg
PESTICIDES GCMSMS (130 subst.)	GC-MS/MS	QuEChERS-method, XI-40	< RL except table I	0,01	(table I)	mg/kg
DITHIOCARBAMATES (7 subst.)	GC-FPD & UV/VIS	ISO/EN 12396-1, XI-03	< RL	0,5	5	mg/kg

* MRL according to EU-PESTICIDES Database (Regulation (EC) No 396/2005) for blueberries (0154010)

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ΠΙΝΑΚΑΣ Ι – ΑΝΩΤΑΤΑ ΟΡΙΑ ΚΑΤΑΛΟΙΠΩΝ ΚΑΙ ΥΠΟΛΟΓΙΣΜΟΙ ΤΟΞΙΚΟΤΗΤΑΣ
TABLE I – MAXIMUM RESIDUE LIMITS AND TOXICITY CALCULATIONS

ΔΡΑΣΤΙΚΗ ΟΥΣΙΑ ACTIVE SUBSTANCE	ΑΠΟΤΕΛΕΣΜΑ RESULT [mg/kg]	EU-MRL [mg-kg]	EU-MRL Source	ΙΣΧΥΕΙ ΓΙΑ VALID FOR	ARfD [mg/kg BW]	ARfD Source	Intake [mg/kg BW]	EU-MRL %	ARfD %
Άθροισμα ποσοστών: Sum of percentages:									

* Acute Reference Dose (ARfD) / Οξεία Δόση Αναφοράς

For ARfD calculation the BfR model is used with the following parameters:

Product : 0154010 blueberries

Variability Factor : 1

Large Portion: 50.00g

Η ΑΝΑΛΥΣΙΣ Α.Ε. δεν φέρει καμία ευθύνη για τα ΑΟΚ (ανώτατα όρια καταλοίπων) που αναρτώνται στον ιστοχώρο της Ε.Ε.

ANALYSIS S.A laboratories assume no responsibility for the MRL (maximum residue limits) posted on the website E.U

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583 TOTAL SUBSTANCES - 583 ΟΥΣΙΕΣ ΣΥΝΟΛΙΚΑ

TABLE I - LC-MS/MS (446 PESTICIDES)

2,4,5-T, 2,4-D, 2,4DB, 4,3-Indolyl-Butyric-Acid, 4-chlorophenoxyacetic acid, Abamectin (avermectin B1a, avermectin B1b and delta-8.9isomer of avermectin B1a), Acephate, Acequinocyl, Acetamiprid, Acidobenzolar-S-Methyl, Aclonifen, Alachlor, Aldicarb, Aldicarb-Sulfone, Aldicarb-Sulfoxide, Aloxymid, Ametoctradine, Amidosulfuron, Aminopyralid, Amisulbrom, Amitraz (amitraz metabolite 2.4-dimethylaniline), Amitrole, Aramite, Asulam, Atrazin, Atrazin-Desetyl, Azaconazole, Azadirachtine, Azimsulfuron, Azinphos-Ethyl, Azinphos-Methyl, Azoxystrobin, Barban, Benalaxyl, Benalaxyl M, Benflubutamid, Benfuracarb, Benomyl, Bentazone, Benthialicarb, Benzalconium-C8, Benzalkonium-C10, Benzalkonium-C12 Benzalkonium-C14, Benzalkonium-C16, Bifenox, Bitertanol, Bixafen, Boscalid, Bromacil, Bromoxynil, Bromuconazole, Bupirimate, Buprofezin, Butafenacil, Butylate, Cadusafos, Carbaryl, Carbendazime, Carbetamide, Carbofuran, Carbofuran-3-Hydroxy, Carbophenothion, Carbosulfan, Carboxim, Carfentrazone-Ethyl, Chlorbufam, Chlorfenviphos, Chloridazon, Chlorothalonil-4-hydroxy, Chlorotoluron, Chloroxuron, Chlorpropham, Chlorpyrifos-Ethyl, Chlorpyrifos-Methyl, Chlorsulfuron, Chlorthiamid, Chromafenozide, Cinidon-Ethyl, Clethodim, Clodinafop-Propargyl, Clofentezin, Clomazone, Clopyralid, Clothianidin, Coumaphos, Crotoxyphos, Cyazofamid, Cyclanilide, Cycloxidim, Cyflufenamid, Cyhalofop-Butyl, Cymiazole, Cymoxanil, Cyphenothrin, Cyproconazole, Cyprodinil, Cyromazine, Daminozide, Dazomet, DDAC(Didecyl-dimethylammonium chloride (mixture of alkyl-quaternary ammonium salts with alkyl chain lengths of C8, C10 and C12) DEET, Demeton-S-Methyl, Demeton-S-Methyl-Sulfone, Demeton-S-Methyl-Sulfoxide, Desmedipham, Desmetryn, Diafenthiuron, Diallyle, Diazinon, Dicamba, Dichlobutrazole, Dichlofenthion, Dichlorprop, DichlorpropP, Diclofop-Methyl, Diclofop free acid, Dicrotophos, Diethofencarb, Difenconazole, Diflubenzuron, Diflufenican, Dimethachlor, Dimethenamide-P, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazol, Dinobuton, Dinoseb, Dinoterb, Dioxathion, Diphenylamine, Disulfoton, Disulfoton sulfone, Disulfotone sulfoxide, Ditalimfos, Dithianon, Dithiofencarb, Diuron, Dmpf, DNOC, Dodine, Emamectin, Epoxiconazole, Etaconazol, Ethametsulfuron-methyl, Ethiofencarb, Ethion, Ethirimol, Ethofumesate, Ethoprophos, Ethoxyquin, Ethoxysulfuron, Etofenprox, Etozazole, Etridiazole, Etrimephos, Famoxadone, Febutatine-Oxide, Fenamidone, Fenamiphos, Fenamiphos, Fenamiphos sulfone, Fenamiphos sulfoxide, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenoxaprop-P-Ethyl, Fenoxycarb, Fenpropathrin, Fenpropimorph, Fenpyroximate, Fenthion, Fenthion sulfone, Fenthion sulfoxide, Fenthion-oxon, Fenthion-oxon-sulfone, Fenthion-oxon-sulfoxide, Fipronil, Fipronil sulfone, Flazosulfuron, Flonicamide, Flonicamide-TFNA, Flonicamide-TFNG, Florasulam, Fluazinam, Fluaziphos-P-Butyl, Fluaziprop-P-Free-Acid, Flubendiamide, Flucycloxuron, Flucytrinate, Flufenacet, Flufenacet metabolite FOE5043, Flufenoxuron, Flufenazine, Flumethrin, Flumioxazine, Fluometuron, Fluoroglycofen-Ethyl, Fluotrimazole, Fluoxastrobin, Flupyrifur-Methyl, Fluquinconazole, Flurochloridone, Flurtamone, Flusilazole, Flutriafol, Fluxapyroxad, Fomesafen, Foramsulfuron, Forchlorfenuron, Formetanate, Fosthiazate, Fuberidazole, Furathiocarb, Gibberelic-Acid, Halosulfuron-Methyl, Haloxyfop-Methyl, Haloxyfop-R-Methyl, Heptenophos, Hexaconazole, Hexazinone, Hexythiazox, Imazalil, Imazamox, Imazapic, Imazaquin, Imazosulfuron, Imidacloprid, Indoxacarb, Iodosulfuron-Methyl, Ioxynil, Iprovalicarb, Isazofos, Isofenphos, Isofenphos-Methyl, Isoprothiolane, Isoproturon, Isoprazam, Isoxaben, Isoxaflutole, Lenacil, Linuron, Lufenuron, Malaaxon, Malathion, Mandipropamid, MCPA, MCPB, Mecarbam, Mecoprop, MecopropP, Mepanipyrim, Mepronil, Meptyldinocap, Mesosulfuron-Methyl, Mesotrione, Mesotrion metabolite MNBA, Metaflumizone, Metalaxyl, Metalaxyl-M, Metamitron, Metazachlor, Metconazole, Methabenzthiazuron, Methacrifos, Methamidophos, Methidathion, Methiocarb, Methiocarb-Sulfoxide, Methomyl, Methoprene, Methoxyfenozide, Metobromuron, Metolachlor, S-metolachlor, Metominostrobin-E, Metominostrobin-Z, Metosulam, Metoxuron, Metrafenone, Metribuzine, Metsulfuron-Methyl, Mevinphos, Milbemectine A4, Milbemectine A3, Molinate, Monocrotophos, Monolinuron, Monuron, Myclobutanil, Naled, Nicosulfuron, Norlurazone, Novaluron, Nuarimol, O,O-Tepp, O,S-Tepp, Ofurace, Omethoate, Orthosulfamuron, Oryzalin, Oxadiargyl, Oxadiazon, Oxadixyl, Oxamyl, Oxasulfuron, Oxycarboxin, Oxydemeton-Methyl, Oxyfluorfen, Paclbutrazole, Pencycuron, Pendimethaline, Penoxsulam, Penthoxamid, Phenmedipham, Phenothrin, Phenthoate, Phorate, Phosalone, Phosphamidon, Phoxim, Picloram, Picolinafen, Picoxystrobin, Pinoxadem, Piperonylbutoxide, Pirimicarb, Pirimicarb-Desmethyl, Pirimiphos-Ethyl, Pirimiphos-Methyl, Prallethrin, Prochloraz, Prochloraz metabolite (2.4.6-trichlorophenol), Profenofos, Profluralin, Profoxydim, Prohexadion, Propachlor, Propamocarb, Propaquizaphop, Propargite, Propazine, Propetamphos, Propham, Propiconazole, Propisochlor, Propoxur, Propoxycarbazon, 2-hydroxypropoxycarbazon, Propyzamid, Proquinazid, Prosulfocarb, Prosulfuron, Prothioconazole-Desthio, Pymetozole, Pyraclostrobin, Pyraflufen-Ethyl, Pyrasulfotole, Pyrazophos, Pyridalyl, Pyridaphenthion, Pyridate, Pyridate-Metabolite, Pyrifenoxy, Pyrimethanil, Pyriproxyfen, Pyroxsulam, Quinalphos, Quinclorac, Quinmerac, Quinoxifen, Quizalofop-Ethyl, Rimsulfuron, Rotenon, Saflufenacil, Sethoxydim, Silthiofame, Simazin, Spinetoram, Spinosad (Spinosyn-A, Spinosyn-D), Spirodiclofen, Spiromesifen, Spirotetramate, Spirotetramate-Enol, Spirotetramate-Enol-Glucoside, Spirotetramate-Monohydroxy, Spirotetramate ketohydroxy, Spiroxamine, Sulcotrione, Sulfentrazone, Sulfosulfuron, Sulfotep, Tebuconazole, Tebufenozid, Tebufenpyrad, Teflubenzuron, Tembotrione, Temphos, Tepaloxymid, Terbufos, Terbumeton, Terbutylazine, Terbutryn, Tetrachlorvinphos, Tetraconazole, Tetramethrine, Thiabendazole, Thiachloprid, Thiamethoxam, Thiobencarb, Thiodicarb, Thiofanox-Sulfoxide, Thifensulfuron-Methyl, Thiophanate-Methyl, Thiofanox-Sulfone, Thiphensulfuron-Methyl, Tiocarbazil, Tioclofos-Methyl, Tolyfluamide, Topramezone, Tralkoxydim, Triadimefon, Triadimenol, Triasulfuron, Triazophos, Tribenuron-Methyl, Trichlorfon, Triclopyr, Tricyclazole, Tridemorph, Trifloxystrobin, Triflumizol, Triflumuron, Triflusaluron-Methyl, Triforin, Trinexapac-Ethyl, Trinexapac free acid, Triticonazole, Tritosulfuron, Valifenalate, Warfarin, Zoxamid

TABLE II- GC-MS/MS (130 PESTICIDES)

Acetochlor, Acrinathrin, Aldrin, Allethrin, alpha-BHC, Benfluralin, beta-BHC, Bifenazate, Bifenthrin, Bioallethrin, Biphenyl, Bromocyclen, Bromophos-Ethyl, Bromophos-Methyl, Bromopropylate, Butralin, Captafol, Captan, Chinomethionate, Chlorantranilprole, Chlorbenside, Chlordane-Cis, Chlordane-Trans, Oxychlordane, Chlorfenapyr, Chlorfenson, Chlormephos, Chloroaniline, Chlorobenzilate, Chloroneb, Chlorothalonil, Chlorpropham, Chlorthal-dimethyl, Chlorthiophos, Chlozolinate, Cyfluthrin (sum of isomers), Cyfluthrin-beta, Cyhalothrin-lambda, Cyhalothrin-gamma, Cypermethrin (Sum Of Isomers), Cypermethrin-alpha, Cypermethrin-beta, Cypermethrin-zeta, Deltamethrin, Dichlofluanid, Dichlorvos, Dicloran, Dicolof, Dieltrin, Dinobuton, Diufenol, Endosulfan-alpha, Endosulfan-beta, Endosulfan-sulfate, Endrin, Endrin ketone, EPTC, Esfenvalerate, Etaconazole, Ethalfuralin, Ethofumesate, Ethoprophos, Fenarimol, Fenchlorphos, Fenchlorphos oxon, Fenitrothion, Fenpropathrin, Fenpropidin, Fenvalerate, Fluchloralin, Fludioxonil, Fluopicolide, Fluopyram, Fluroxyppyr, Flurprimidol, Flutolanil, Folpet, Fonofos, Formothion, Furathiocarb, gamma-BHC (Lindane), Heptachlor, Hexachloroepoxide, Hexachlorbenzene, Ipconazole, Iprodione, Jodfenfos, Kresoxim-methyl, Lactofen, Napropamide, Nitenpyram, Nitrothal-Isopropyl, o,p'-DDD, o-Phenylphenol (OPP), p,p'-DDD, p,p'-DDE, p,p'-DDT, Paraoxon-Ethyl, Parathion, Parathion-methyl, Paraoxon-methyl, Penconazole, Pentachloroaniline, Permethrin, Phenothrin, Phenthoate, Phorate, Phorate sulfone, Phosmet Oxon, Phosmet, Procymidone, Prometryn, Propanil, Prothiofos, Pyrazophos, Pyridaben, Pyrifenoxy, Quintozene, Resmethrin, S421, tau-Fluvalinate, Tecnazene, Tefluthrin, Terbacil, Tetradifon, Tetradifon, tri-Allate, Trichloronate, Trifloxystrobin, Trifluralin, Vinclozolin

TABLE III - DITHIOCARBAMATES (7 PESTICIDES)

Dithiocarbamates as CS₂ (mancozeb, maneb, metiram, propineb, zineb, thiram, ziram)

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ΗΜΕΡΟΜΗΝΙΑ ΕΚΔΟΣΗΣ / DATE OF PUBLICATION : 22/06/2017

- ΑΝΑΛΥΤΕΣ -

ΥΠΕΥΘΥΝΟΣ ΧΗΜΙΚΩΝ ΑΝΑΛΥΣΕΩΝ
ΕΥΑ ΜΠΑΖΑΚΑ



ΥΠΕΥΘΥΝΟΣ ΧΗΜΙΚΩΝ ΑΝΑΛΥΣΕΩΝ
ΠΑΡΙΣΤΗΝΗ ΝΙΚΟΛΑΟΣ

ΜSc. ΧΗΜΙΚΟΣ
Σταρίων Ν

- ΥΠΕΥΘΥΝΟΣ ΕΡΓΑΣΤΗΡΙΟΥ -

ΥΠΕΥΘΥΝΟΣ ΧΗΜΙΚΩΝ ΑΝΑΛΥΣΕΩΝ
ΕΥΑ ΜΠΑΖΑΚΑ



- ΤΕΛΟΣ ΠΙΣΤΟΠΟΙΗΤΙΚΟΥ / END OF CERTIFICATE -