

Analytical Report

Sample Code	502-2017-00010139	Report date	17-Mar-2017
Certificate No.	AR-17-SU-011482-01		



Changsha Huir Biological-tech Co., Ltd

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 Park, Changsha

Our reference:	502-2017-00010139/ AR-17-SU-011482-01
Client Sample Code:	20170215
Sample described as:	Hesperidine (Citrus Aurantium Extract)
Sample Packaging:	Sealed aluminum foil bag
Sample reception date:	01-Mar-2017
Analysis starting date:	01-Mar-2017
Analysis ending date:	17-Mar-2017

Arrival Temperature (°C)	19	Sample Weight	100g
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	Results	Unit	LOQ	LOD
SU007 Mercury (AAS) Method: BS EN 13806:2002				
Mercury (Hg)	<0.005	mg/kg	0.005	
SU05D Lead (ICP-MS) Method: BS EN ISO 17294-2 2004 mod.				
Lead (Pb)	<0.05	mg/kg	0.05	
SU05E Arsenic (ICP-MS) Method: BS EN ISO 17294-2 2004 mod.				
Arsenic (As)	<0.1	mg/kg	0.1	
SU05G Cadmium (ICP-MS) Method: BS EN ISO 17294-2 2004 mod.				
Cadmium (Cd)	<0.01	mg/kg	0.01	

	Results	Unit	LOQ	LOD
★ JC00U PAH 4 Method: Internal method, GC-MS				
Benzo(a)anthracene	1.6	µg/kg	0.5	
Benzo(a)pyrene	0.9	µg/kg	0.5	
Benzo(b)fluoranthene	1.0	µg/kg	0.5	
Chrysene	1.5	µg/kg	0.5	
Sum PAH 4	5.0	µg/kg		
★ SP201 Organochlorine Pesticides, Pyrethroides Method: ASU L00.00-34				
Screened pesticides	Not Detected			
★ SP203 Organophosphorus Pesticides Method: ASU L00.00-34				
Screened pesticides	Not Detected			
★ SP205 Organonitrogen Pesticides Method: ASU L00.00-34				
2-Phenylphenol	0.027	mg/kg	0.02	
Other screened pesticides	Not Detected			
★ SP914 Quechers LC-XL-GHT Method: EN 15662:2008				
Screened pesticides	Not Detected			

List of screened molecules (* = limit of quantification)

SP201 Organochlorine Pesticides, Pyrethroides (LOQ* mg/kg)					
Aclonifen (0.01)	Acinathrin (0.02)	Aldrin (0.005)	Benfluralin (0.005)	Bifenox (0.02)	Binapacryl (0.02)
Bifenthrin (0.02)	Bromocyclohexane (0.02)	Bromoxynil-octanoate (0.01)	Butralin (0.02)	Chlordane, cis- (0.005)	Chlordane, oxy- (0.005)
Chlordane, trans- (0.005)	Chlorfenapyr (0.005)	Chlorfenprop-methyl (0.01)	Chlorfenson (0.01)	Chloroneb (0.05)	Chlorothalonil (0.01)
Chlorthal-dimethyl (0.005)	Cyfluthrin (0.02)	Cyhalothrin, lambda- (0.02)	Cypermethrin (0.02)	Cyphenothrin (0.02)	DDD, o,p- (0.005)
DDD, p,p'- (0.005)	DDE, o,p- (0.005)	DDE, p,p'- (0.005)	DDT, o,p'- (0.005)	DDT, p,p'- (0.005)	Deltamethrin (0.02)
Diallate (0.05)	Dichlobenil (0.01)	Dichlone (0.02)	Dicloran (0.005)	Dichlorobenzophenone, o,p- (0.04)	Dichlorobenzophenone, p,p- (0.04)
Dicofol, o,p- (0.04)	Dicofol, p,p- (0.04)	Dieldrin (0.005)	Dienochlor (0.02)	Dinitramine (0.01)	Dinobuton (0.02)
Endosulfan, alpha- (0.005)	Endosulfan sulphate (0.01)	Endosulfan, beta- (0.005)	Endrin (0.01)	Endrin ketone (0.01)	Esfenvalerate (0.02)
Ethalfuralin (0.01)	Etridiazole (0.01)	Fenfluthrin (0.02)	Fenpropathrin (0.02)	Fenson (0.01)	Fenvalerate (RR-/SS-Isomers) (0.01)

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SP201 Organochlorine Pesticides, Pyrethroids (LOQ* mg/kg)

Fenvalerate (RS-/SR-Isomers) (0.01)	Flubenzimine (0.01)	Fluchloralin (0.01)	Flucythrinate (0.02)	Flumetralin (0.01)	Fluorodifen (0.02)
Fluorimide (0.02)	Genite (0.01)	Halfenprox (0.02)	HCH, alpha- (0.005)	HCH, beta- (0.01)	HCH, delta- (0.005)
HCH, epsilon- (0.005)	Lindane (gamma-HCH) (0.005)	Heptachlor (0.005)	Heptachlor epoxide, cis- (0.005)	Heptachlor epoxide, trans- (0.005)	Hexachlorobenzene (HCB) (0.005)
Ioxynil-octanoate (0.005)	Isobenzan (0.005)	Isodrin (0.005)	Isopropalin (0.01)	Methoxychlor (0.01)	Mirex (0.005)
Nitrapyrin (0.01)	Nitrofen (0.01)	Octachlorstyrene (0.01)	Oxyfluorfen (0.01)	Pendimethalin (0.01)	Pentachloranisole (0.005)
Pentachloroaniline (0.005)	Pentachlorothioanisole (0.005)	Permethrin (0.02)	Plifenate (0.005)	Polychloroterpene (Camphechlor) (0.2)	Profuralin (0.005)
Propanil (0.02)	Quintozene (0.005)	S 421 (0.005)	tau-Fluvalinate (0.02)	Tecnazene (0.005)	Tefluthrin (0.02)
Tetradifon (0.01)	Tetrasul (0.01)	Tralomethrin (0.02)	Triallate (0.02)	Trichloronat (0.01)	Trifluralin (0.005)

SP203 Organophosphorus Pesticides (LOQ* mg/kg)

Acephate (0.02)	Amidithion (0.02)	Azamephosphos (0.04)	Azinphos-ethyl (0.05)	Azinphos-methyl (0.05)	Bornyl (0.02)
Bromfenphos (0.02)	Bromophos-methyl (0.02)	Bromophos-ethyl (0.02)	Butamifos (0.02)	Cadusaphos (0.02)	Carbophenothion (0.02)
Carbophenothion-methyl (0.02)	Chlorfenvinphos (0.02)	Chlormephos (0.02)	Chlorpyrifos (-ethyl) (0.02)	Chlorpyrifos-methyl (0.02)	Chlorlorthon (0.02)
Chlorthiophos (0.02)	Coumaphos (0.05)	Crotoxyphos (0.02)	Crufomate (0.02)	Cyanofenphos (0.05)	Cyanophos (0.02)
Demeton-S-methyl (0.05)	Demeton-S-methyl-sulfone (0.05)	Dialifos (0.05)	Diazinon (0.02)	Dicaphthon (0.01)	Dichlofenthion (0.02)
Dichlorvos (0.01)	Dicrotophos (0.02)	Dimefox (0.02)	Dimethoate (0.02)	Dimethoate/Omethoate (sum) (0)	Dimethylvinphos (0.02)
Dioxabenzofos (0.02)	Dioxathion (0.02)	Disulfoton (0.02)	Disulfoton-sulfon (0.02)	Disulfoton-sulfoxide (0.04)	Ditalimfos (0.02)
Edifenphos (0.05)	EPN (0.05)	Ethion (0.01)	Ethoprophos (0.02)	Etrifos (0.02)	Famophos (0.05)
Fenamiphos (0.02)	Fenamiphos (sum) (0)	Fenamiphos-sulfone (0.02)	Fenamiphos-sulfoxide (0.02)	Fenchlorphos (0.02)	Fenchlorphos oxon (0.02)
Fenitrothion (0.01)	Fensulfthion (0.02)	Fensulfthion-oxon-sulfone (0.05)	Fensulfthion-oxon-sulfoxide (0.02)	Fensulfthion-sulfone (0.02)	Fenthion (0.01)
Fenthion-oxon (0.02)	Fenthion-oxon-sulfone (0.05)	Fenthion-oxon-sulfoxide (0.02)	Fenthion-sulfone (0.05)	Fenthion-sulfoxide (0.02)	Fonofos (0.02)
Formothion (0.02)	Fosthiate (0.02)	Fosthietan (0.02)	Heptenophos (0.02)	Iodofenphos (0.02)	Iprobenfos (0.02)
Isazophos (0.02)	Isocarbofos (0.02)	Isofenphos (0.02)	Isofenphos-methyl (0.02)	Isoxathion (0.05)	Leptophos (0.05)
Malaoxon (0.02)	Malathion (0.02)	Mecarbam (0.02)	Mephosfolan (0.02)	Merphos (0.02)	Methaciphos (0.02)
Methamidophos (0.02)	Methidathion (0.02)	Mevinphos (0.02)	Monocrotophos (0.01)	Morphothion (0.05)	Naled (0.02)
N-Desethyl-pirimiphos-methyl (0.02)	Omethoate (0.02)	Oxydemeton-methyl (0.05)	Paraaxon-ethyl (0.02)	Paraaxon-methyl (0.02)	Parathion (0.02)
Parathion-methyl (0.02)	Parathion-methyl/Paraaxon-methyl (sum) (0)	Phenkapton (0.02)	Phenthoate (0.02)	Phorate (0.02)	Phorate (sum) (0)
Phorate-sulfone (0.02)	Phorate-sulfoxide (0.02)	Phosalone (0.04)	Phosfolan (0.02)	Phosmet (0.05)	Phosphamidon (0.02)
Piperophos (0.02)	Pirimiphos-ethyl (0.02)	Pirimiphos-methyl (0.02)	Profenofos (0.02)	Propaphos (0.02)	Propetamphos (0.02)
Prothiofos (0.02)	Prothoate (0.02)	Pyraclufos (0.05)	Pyrazophos (0.05)	Pyridaphenthion (0.02)	Pyrimitate (0.02)
Quinalphos (0.02)	Quintiofos (0.02)	Sulfotep (0.02)	Sulprofos (0.05)	Tebupirifos (0.02)	TEPP (0.02)
Terbufos (0.02)	Terbufos (sum) (0)	Terbufos-sulfone (0.01)	Tetrachlorvinphos (0.02)	Thiometon (0.02)	Thionazin (0.02)
Tolclofos-methyl (0.02)	Triamiphos (0.05)	Triazophos (0.01)	Tribufos (0.04)	Trichlorfon (0.05)	Vamidithion (0.04)

SP205 Organonitrogen Pesticides (LOQ* mg/kg)

2-Phenylphenol (0.02)	Acetochlor (0.02)	Alachlor (0.02)	Ametryn (0.02)	Atrazine (0.02)	Azaconazole (0.02)
Azoxystrobin (0.02)	Biphenyl (0.02)	Bitertanol (0.02)	Bromacil (0.02)	Bromopropylate (0.02)	Buprofezin (0.02)
Chlorobenzilate (0.02)	Chloropropylate (0.02)	Chlorpropham (0.02)	Clodinafop-propargyl (0.02)	Cyanazine (0.02)	Cycloate (0.02)
DCIP (0.4)	Dichlofluanid (0.04)	Diphenylamine (0.02)	Etozazole (0.02)	Fenazaquin (0.02)	Fluazifop-P-butyl (0.02)
Flumioxazin (0.02)	Fluquinconazole (0.02)	Hexazinone (0.02)	Iprodione (0.02)	Lenacil (0.02)	Meprotil (0.02)
Metazachlor (0.02)	Metconazole, cis- (0.02)	Metconazole, trans- (0.02)	Methoprotrene (0.02)	Metolachlor (0.02)	Myclobutanil (0.02)
Napropamide (0.02)	Pacloubtrazol (0.02)	Piperonyl butoxide (0.02)	Procymidone (0.02)	Prometryn (0.02)	Propachlor (0.02)
Propargite (0.02)	Propazine (0.02)	Propham (0.02)	Propiconazole (0.02)	Pyraclufos (0.02)	Pyridaben (0.02)
Pyrifenoxy (0.02)	Pyrimethanil (0.02)	Sebutylazine (0.02)	Silaflofen (0.02)	Simazine (0.02)	Tebufenpyrad (0.02)
Terbutylazine (0.02)	Terbutryn (0.02)	Tetradion (0.02)	Tolyfluanid (0.02)	Triticonazole (0.02)	Vinclozolin (0.02)

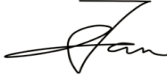
SP914 Quechers LC-XL-GHT (LOQ* mg/kg)

2,4-D (0.02)	3-Hydroxycarbofuran (0.01)	Abamectin (0.02)	Acetamidiprid (0.01)	Acrinathrin (0.01)	Aldicarb (0.01)
Aldicarb-sulfone (0.01)	Aldicarb-sulfoxide (0.01)	Aminocarb (0.01)	Amirtraz (0.01)	Atrazine (0.01)	Azadirachtin (0.02)
Azinphos-methyl (0.03)	Azoxystrobin (0.01)	Benalaxyl (0.01)	Bendiocarb (0.01)	Benfuracarab (0.02)	Bensulicide (0.05)
Bentazone (0.01)	Benthiavalicarb, isopropyl- (0.01)	Benzethonium Chloride (0.1)	Benzylidimethyldodecylammonium chloride (BAC-C12) (0.1)	Bitertanol (0.01)	Boscalid (0.01)
Bromoxynil (0.01)	Bromuconazole, cis- (0.01)	Bromuconazole, trans- (0.01)	Bupirimate (0.01)	Buprofezin (0.01)	Butocarboxim (0.02)
Butocarboxim-sulfoxide (0.02)	Butoxycarboxim (0.01)	Carbaryl (0.01)	Carbendazim (0.01)	Carbendazim/Benomyl (sum) (0.01)	Carbofuran (0.01)
Carbosulfan (0.01)	Carboxin (0.01)	Carfentrazone-ethyl (0.5)	Cetalkonium chloride (BAC-C16) (0.1)	Chlorantraniliprole (0.01)	Chlorobromuron (0.01)
Chlorbufam (0.02)	Chlorfluazuron (0.01)	Chloridazone (0.02)	Chlorotoluron (0.01)	Chloroxuron (0.01)	Chlorpropham (0.03)
Chlorpyrifos (-ethyl) (0.02)	Chlorpyrifos-methyl (0.03)	Cinidon-ethyl (0.01)	Clefoxydim (0.01)	Clethodim (0.01)	Clofentezine (0.01)
Clomazone (0.01)	Clopyralid (0.2)	Clothianidin (0.01)	Cyazofamid (0.01)	Cycloxydim (0.01)	Cymoxanil (0.01)
Cyproconazole (0.01)	Cyprodinil (0.01)	Cyromazine (0.05)	DDAC C10 - Didecylidimethylammonium chloride (0.1)	Demeton-S-methyl (0.01)	Demeton-S-methyl-sulfone (0.01)
Desmedipham (0.01)	Diafenthuron (0.01)	Diazinon (0.01)	Diethofencarb (0.01)	Diethyltoluamide (0.01)	Difenoconazole (0.01)
Difenoxuron (0.01)	Diflubenzuron (0.01)	Dimethuron (0.02)	Dimethenamid (0.01)	Dimethoate (0.01)	Dimethomorph (0.01)
Diniconazole (0.01)	Dirotoluron (0.01)	Dioxacarb (0.02)	Diuron (0.01)	Dodine (0.5)	Emamectin (0.02)
Epoxiconazole (0.01)	Ethiofencarb (0.01)	Ethiofencarb-sulfone (0.01)	Ethiofencarb-sulfoxide (0.01)	Etofenprox (0.02)	Ethofumesate (0.02)
Ethoxyquin (0.02)	Fenarimol (0.01)	Fenazaquin (0.01)	Fenbuconazole (0.01)	Fenhexamid (0.01)	Fenobucarb (0.01)
Fenoxycarb (0.01)	Fenpropimorph (0.01)	Fenpyroximate (0.01)	Fipronil (0.01)	Fipronil (sum) (0)	Fipronil, desulfiny- (0.01)
Fipronil-sulfide (0.01)	Fipronil-sulfone (0.01)	Flazasulfuron (0.01)	Flonicamid (0.02)	Fluazifop-P (0.02)	Fluazifop-P-butyl (0.02)
Fluazinam (0.01)	Flubendiamide (0.01)	Fludioxonil (0.01)	Flufenacet (0.01)	Flufenoxuron (0.01)	Fluopicolid (0.01)
Fluopyram (0.01)	Fluoxastrobin (0.1)	Flusilazole (0.01)	Forchlorfenuron (0.01)	Formetanate (0.01)	Fosthiate (0.01)
Fuberidazole (0.01)	Furalaxyl (0.01)	Furathiocarb (0.01)	Haloxypol (0.02)	Hexaconazole (0.01)	Hexaflumuron (0.01)
Hexythiazox (0.01)	Imazalil (0.01)	Imbenconazole (0.01)	Imidacloprid (0.01)	Indoxacarb (0.01)	Iprodione (0.01)
Iprovalicarb (0.01)	Isoprocarb (0.01)	Isoproturon (0.02)	Isosafutole (0.01)	Kresoxim-methyl (0.02)	Linuron (0.01)
Lufenuron (0.01)	Malathion (0.01)	Mandioproamid (0.02)	MCPA (0.05)	MCPB (0.05)	Mepanipyrim (0.01)
Metaflumizone (0.01)	Metaxalyl (0.01)	Metamitron (0.01)	Methabenzthiazuron (0.01)	Methamidophos (0.05)	Methidathion (0.01)
Methiocarb (0.01)	Methiocarb-sulfone (0.01)	Methiocarb-sulfoxide (0.01)	Methomyl (0.01)	Methoxyfenozide (0.01)	Metiachlor (0.01)
Metolcarb (0.01)	Metoxuron (0.01)	Metribuzin (0.01)	Mirisalokonium chloride (BAC-C14) (0.1)	Monolinuron (0.01)	Monuron (0.01)
Myclobutanil (0.01)	Neburon (0.01)	Nitenpyram (0.05)	Novaluron (0.01)	Nuarimol (0.01)	Omethoate (0.02)
Oxadixyl (0.02)	Oxamyl (0.01)	Oxydemeton-methyl (0.02)	Penconazole (0.01)	Pencycuron (0.01)	Pendimethalin (0.1)
Penflufen (0.05)	Phenmedipham (0.01)	Phosalone (0.03)	Phosmet (0.01)	Phoxim (0.01)	Piperonyl butoxide (0.01)
Pirimicarb (0.01)	Pirimicarb, desmethyl- (0.01)	Pirimicarb, desmethyl-formamido- (0.01)	Pirimiphos-methyl (0.01)	Prochloraz (0.01)	Procymidone (0.05)
Promecarb (0.01)	Propamocarb (0.01)	Propaquizafop (0.01)	Propargite (0.01)	Propham (0.05)	Propiconazole (0.01)



SP914 Quechers LC-XL-GHT (LOQ* mg/kg)

Propoxur (0.01)	Propoxycarbazone (0.01)	Prosulfocarb (0.01)	Prothioconazole (0.01)	Pymetrozine (0.02)	Pyraclostrobin (0.01)
Pyrethrins (0.02)	Pyridaben (0.01)	Pyridate (0.1)	Pyrimethanil (0.01)	Pyriproxyfen (0.01)	Quinoxifen (0.01)
Quinalofop (0.05)	Rimsulfuron (0.01)	Rotenone (0.01)	Sethoxydim (0.01)	Simazine (0.01)	Spinetoram (0.1)
Spinosad (0.01)	Spirodiclofen (0.01)	Spiromesifen (0.01)	Spirotetramat (0.01)	Spirotetramate (Sum) (0.1)	Spirotetramat-enol (0.1)
Spirotetramat-enolglucoside (0.1)	Spirotetramat-ketohydroxy (0.1)	Spirotetramat-monohydroxy (0.1)	Spiroxamine (0.01)	Sulfentrazone (0.01)	Tebuconazole (0.01)
Tebufozide (0.01)	Tebufenpyrad (0.01)	Teflubenzuron (0.01)	Tepraloxymid (0.01)	Terbacil (0.01)	Terbutylazine (0.01)
Tetraconazole (0.01)	Thiabendazole (0.01)	Thiacloprid (0.01)	Thiamethoxam (0.01)	Thiodicarb (0.01)	Thiofanox (0.05)
Thiofanox-sulfone (0.01)	Thiofanox-sulfoxide (0.02)	Thiophanate-methyl (0.02)	Tolclofos-methyl (0.05)	Tralkoxydim (0.01)	Triadimefon (0.01)
Triadimenol (0.02)	Tricyclazole (0.01)	Tridemorph (0.01)	Trifloxystrobin (0.01)	Triflumizole (0.01)	Triflumuron (0.01)
Triforine (0.01)	Trimethycarb. 3,4,5- (0.01)	XMC (0.01)	Zoxamide (0.01)		

SIGNATURE


Joseph Fan
Laboratory Manager

EXPLANATORY NOTE

≥ Greater than or equal to

< Less than

≤ Less than or equal to

N/A means Not applicable

The result(s) relate(s) only to the item (s) tested.

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END OF REPORT

