

Analytical Report

Sample Code	502-2017-00010133	Report date	22-Mar-2017
Certificate No.	AR-17-SU-012419-01		



Changsha Huir Biological-tech Co., Ltd

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 Park, Changsha

Our reference:	502-2017-00010133/ AR-17-SU-012419-01
Client Sample Code:	20170208
Sample described as:	L-glutathione Reduced
Sample Packaging:	Sealed aluminum foil bag
Sample reception date:	01-Mar-2017
Analysis starting date:	01-Mar-2017
Analysis ending date:	22-Mar-2017

Arrival Temperature (°C)	19	Sample Weight	150g
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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	<0.5	µg/kg	0.5	
	Benzo(a)pyrene	<0.5	µg/kg	0.5	
	Benzo(b)fluoranthene	<0.5	µg/kg	0.5	
	Chrysene	<0.5	µg/kg	0.5	
	Sum PAH 4	Inapplicable	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				
	Screened pesticides	Not Detected			
☆ SP914	Quechers LC-XL-GHT Method: EN 15662:2008				
	Screened pesticides	Not Detected			

List of screened and not detected molecules (* = limit of quantification)

SP201 Organochlorine Pesticides, Pyrethroides (LOQ* mg/kg)					
Aclonifen (0.01)	Acrinathrin (0.02)	Aldrin (0.005)	Benfluralin (0.005)	Bifenox (0.02)	Binapacryl (0.02)
Bifenthrin (0.02)	Bromocyclen (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)
Dicofof, o,p- (0.04)	Dicofof, p,p- (0.04)	Dieldrin (0.005)	Dienochlor (0.02)	Diniramine (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)
Fenvalerate (RS-/SR-Isomers) (0.01)	Flubenzimine (0.01)	Fluchloralin (0.01)	Flucythrinate (0.02)	Flumetralin (0.01)	Fluorodifen (0.02)
Fluoroimide (0.02)	Genite (0.01)	Halfenprox (0.02)	HCH, alpha- (0.005)	HCH, beta- (0.01)	HCH, delta- (0.005)

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

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)
Nitrylpyrin (0.01)	Nitrofen (0.01)	Octachlorstyrene (0.01)	Oxyfluorfen (0.01)	Pendimethalin (0.01)	Pentachloranisole (0.005)
Pentachloroaniline (0.005)	Pentachloroethoxyanisole (0.005)	Permethrin (0.02)	Plifenate (0.005)	Polychloroterpene (Camphchlor) (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)	Azinphos-ethyl (0.05)	Azinphos-methyl (0.05)	Bomyl (0.02)
Bromfenvinphos (0.02)	Bromophos-methyl (0.02)	Butamifos (0.02)	Cadusaphos (0.02)	Carbophenothion (0.02)
Carbophenothion-methyl (0.02)	Chlorfenvinphos (0.02)	Chlorpyrifos (-ethyl) (0.02)	Chlorpyrifos-methyl (0.02)	Chlorthion (0.02)
Chlorthiophos (0.02)	Coumaphos (0.05)	Crotoxyphos (0.02)	Cyanofenphos (0.05)	Cyanophos (0.02)
Demeton-S-methyl (0.05)	Demeton-S-methyl-sulfone (0.05)	Dialifos (0.05)	Dicaphtho (0.01)	Dichlofenthion (0.02)
Dichlorvos (0.01)	Dicrotophos (0.02)	Dimefox (0.02)	Dimethoate (0.02)	Dimethylvinphos (0.02)
Dioxabenzofos (0.02)	Dioxathion (0.02)	Disulfoton (0.02)	Disulfoton-sulfoxide (0.02)	Ditalimfos (0.02)
Edifenphos (0.05)	EPN (0.05)	Ethion (0.01)	Ethoprophos (0.02)	Famophos (0.05)
Fenamiphos (0.02)	Fenamiphos (sum) (1)	Fenamiphos-sulfone (0.02)	Fenamiphos-sulfoxide (0.02)	Fenchlorphos oxon (0.02)
Fenitrothion (0.01)	Fensulfthion (0.02)	Fensulfthion-oxon-sulfone (0.05)	Fensulfthion-oxon-sulfoxide (0.02)	Fenthion (0.01)
Fenthion-oxon (0.02)	Fenthion-oxon-sulfone (0.05)	Fenthion-oxon-sulfoxide (0.02)	Fenthion-sulfone (0.05)	Fonofos (0.02)
Formothion (0.02)	Fosthiatate (0.02)	Fosthietan (0.02)	Heptenophos (0.02)	Iprobenfos (0.02)
Isazophos (0.02)	Isocarbofos (0.02)	Isofenphos (0.02)	Isofenphos-methyl (0.02)	Leptophos (0.05)
Malaaxon (0.02)	Malathion (0.02)	Mecarbam (0.02)	Mephosfolan (0.02)	Methacriphos (0.02)
Methamidophos (0.02)	Methidathion (0.02)	Mevinphos (0.02)	Monocrotophos (0.01)	Morphothion (0.05)
N-Desethyl-pirimiphos-methyl (0.02)	Omethoate (0.02)	Oxydemeton-methyl (0.05)	Paraoxon-ethyl (0.02)	Paraoxon-methyl (0.02)
Parathion-methyl (0.02)	Parathion-methyl/Paraoxon-methyl (sum) (1)	Phenkaptan (0.02)	Phenthoate (0.02)	Phorate (0.02)
Phorate-sulfone (0.02)	Phorate-sulfoxide (0.02)	Phosalone (0.04)	Phosfolan (0.02)	Phosmet (0.05)
Piperophos (0.02)	Pirimiphos-ethyl (0.02)	Pirimiphos-methyl (0.02)	Profenofos (0.02)	Propaphos (0.02)
Prothiofos (0.02)	Prothoate (0.02)	Pyraclafos (0.05)	Pyrazofos (0.05)	Pyridaphenthion (0.02)
Quinalphos (0.02)	Quintiofos (0.02)	Sulfotep (0.02)	Sulprofos (0.05)	Tebupirimfos (0.02)
Terbufos (0.02)	Terbufos (sum) (1)	Terbufos-sulfone (0.01)	Tetrachlorvinphos (0.02)	Thiometon (0.02)
Tolclofos-methyl (0.02)	Triamiphos (0.05)	Triazophos (0.01)	Tribufos (0.04)	Trichlorfon (0.05)
				Thionazin (0.02)
				Vamidothion (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)	Clofinafop-propargyl (0.02)	Cyanazine (0.02)	Cyloate (0.02)
DCIP (0.4)	Dichlofluanid (0.04)	Diphenylamine (0.02)	Etiozazole (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)	Mepronil (0.02)
Metazachlor (0.02)	Metconazole, cis- (0.02)	Metconazole, trans- (0.02)	Methoprotyrine (0.02)	Metolachlor (0.02)	Myclobutanil (0.02)
Napropamide (0.02)	Pacloubutrazol (0.02)	Piperonyl butoxide (0.02)	Procymidone (0.02)	Prometryn (0.02)	Propachlor (0.02)
Propargite (0.02)	Propazine (0.02)	Propam (0.02)	Propiconazole (0.02)	Pyraclafos (0.02)	Pyridaben (0.02)
Pyrifenoxy (0.02)	Pyrimethanil (0.02)	Sebutylazine (0.02)	Silafufenol (0.02)	Simazine (0.02)	Tebufenpyrad (0.02)
Terbutylazine (0.02)	Terbutryn (0.02)	Tetradifon (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)	Acetamidip (0.01)	Acrinathrin (0.01)	Aldicarb (0.01)
Aldicarb-sulfone (0.01)	Aldicarb-sulfoxide (0.01)	Aminocarb (0.01)	Amiratz (0.01)	Atrazine (0.01)	Azadirachtin (0.02)
Azinphos-methyl (0.03)	Azoxystrobin (0.01)	Benalaxyl (0.01)	Bendiocarb (0.01)	Benfuracarb (0.02)	Bensulide (0.05)
Bentazone (0.01)	Benthiavalicarb, isopropyl- (0.01)	Benzethonium Chloride (0.1)	Benzylidimethyl-dodecylammonium 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)	Butoxy-carboxim (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)	Clofexydim (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 - Didecylidimethylammoniumchloride (0.1)	Demeton-S-methyl (0.01)	Demeton-S-methyl-sulfone (0.01)
Desmedipham (0.01)	Diafenthiuron (0.01)	Diazinon (0.01)	Diethofencarb (0.01)	Diethyltoluamide (0.01)	Difenoconazole (0.01)
Difenoxyuron (0.01)	Diffubenzuron (0.01)	Dimetofen (0.02)	Dimethenamid (0.01)	Dimethoate (0.01)	Dimethomorph (0.01)
Diniconazole (0.01)	Dimotofuran (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)	Etiofenprox (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)	Fenpropiorph (0.01)	Fenpyroximate (0.01)	Fipronil (0.01)	Fipronil (sum) (1)	Fipronil, desulfinyl- (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)	Fludioxonil (0.01)	Flufenacet (0.01)	Flufenacet (0.01)	Flufenoxuron (0.01)	Fluopicolid (0.01)
Fluopyram (0.01)	Fluoxastrobin (0.1)	Flusilazole (0.01)	Forchlorfenuron (0.01)	Formetanate (0.05)	Fosthiatate (0.01)
Fubendazole (0.01)	Furalaxyl (0.01)	Furathiocarb (0.01)	Haloxypol (0.02)	Hexaconazole (0.01)	Hexaflumuron (0.01)
Hexythiazox (0.01)	Imazalil (0.01)	Imibenconazole (0.01)	Imidacloprid (0.01)	Indoxacarb (0.01)	Iprodione (0.01)
Iprovalicarb (0.01)	Isoprocarb (0.01)	Isoproturon (0.02)	Isoxaflutole (0.01)	Kresoxim-methyl (0.02)	Linuron (0.01)
Lufenuron (0.01)	Malathion (0.01)	Mandiopropamid (0.02)	MCPA (0.05)	MCPB (0.05)	Mepanipyrim (0.01)
Metalfumizone (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)	Metolachlor (0.01)
Metolcarb (0.01)	Metoxuron (0.01)	Metribuzin (0.01)	Miristalkonium 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)	Phoxmet (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)	Propamacarb (0.01)	Propaquizafop (0.01)	Propargite (0.01)	Propham (0.05)	Propiconazole (0.01)
Propoxur (0.01)	Propoxycarbazon (0.01)	Prosulfocarb (0.01)	Prothioconazole (0.01)	Prothioconazole (0.02)	Pyraclastrobin (0.01)
Pyrethrins (0.02)	Pyridaben (0.01)	Pyridate (0.1)	Pyrimethanil (0.01)	Pyriproxyfen (0.01)	Quinoxifen (0.01)
Quazalofop (0.05)	Rimsulfuron (0.01)	Rotenone (0.01)	Sethoxydim (0.01)	Simazine (0.01)	Spinetoram (0.01)
Spinosad (0.01)	Spirodiclofen (0.01)	Spiromesifen (0.01)	Spirotetramat (0.01)	Spirotetramate (Sum) (1)	Spirotetramat-enol (0.1)
Spirotetramat-enolglucoside (0.1)	Spirotetramat-ketohydroxy (0.1)	Spirotetramat-monohydroxy (0.1)	Spiroxamine (0.01)	Sulfentrazon (0.01)	Tebuconazole (0.01)
Tebufenozide (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)



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

☆ means the test is subcontracted within Eurofins group
 ◎ means the test is subcontracted outside Eurofins group

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END OF REPORT

