Columbia LABORATORIES
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 21-005237/D002.R00
Report Date: 05/19/2021
Purchase Order:
Received: 05/11/21 10:30 AM

Customer: Analytical Resource Lab
520 South 850 East, STE B3
Lehi Utah 84043
United States of America (USA)

Sample ID: 414671 Clean Multi-Collagens Lot 18545
Sample Matrix: Supplement
Laboratory ID: 21-005237-0003-00
Evidence of Cooling: No
Temp: 20 °C
Relinquished by: UPS

Sample Results

Individual Analyses

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Glyphosate	< LOQ	mg/kg	0.0500	05/17/21	QuPPe-method, EURL-SRM, Version 7, Dec 2012	

Pesticides

Multi-Residue Pesticide Profile

Analyte	Result	Units	Analyzed	Method	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes	mg/kg	05/18/21	AOAC 2007.01 & EN 15662 (mod)	

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

mg/kg = Milligram per kilogram = parts per million (ppm)

Approved Signatory

Derrick Tanner
General Manager

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CFL-E65 R0.00
Effective 1/22/2021

Columbia Laboratories, Inc
P2220 Multi-Residue Profile, Limits of Quantitation (MDL Sheet)

Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)
2,4,5-T	0.010		Butachlor	0.010		Cymoxanil	0.010
2,4,5-TP	0.010		Butralin	0.020		Cypermethrin	0.010
2,4-D	0.010		Butylate	0.010		Cyprodinil	0.010
2,4-DB	0.010		Cadusafos	0.010		Cyromazine	0.010
2,4-DP (Dichlorprop)	0.010		Captafol	0.100		DCPMU	0.010
Abamectin (Avermectin)	0.010		Captan	0.020		DDD, o,p'-	0.010
Acephate	0.020		Carbaryl	0.010		DDD, p,p'-	0.010
Acequinocyl	0.010		Carbendazim	0.010		DDE, o,p'-	0.010
Acetamiprid	0.010		Carbofuran	0.010		DDE, p,p'-	0.010
Acetochlor	0.020		Carbofuran, 3-hydroxy	0.010		DDT, o,p'-	0.010
Acifluorfen	0.010		Carbophenothion	0.010		DDT, p,p'-	0.010
Acrinathrin	0.010		Carbophenothion methyl	0.010		DEF (Tribufos)	0.010
Alachlor	0.020		Carboxin	0.010		Deltamethrin	0.010
Aldicarb	0.010		Carfentrazone-ethyl	0.010		Demeton-S	0.020
Aldicarb sulfone (Aldoxycarb)	0.010		Chlorantraniliprole	0.010		Demeton-S methyl-sulfone	0.020
Aldicarb-sulfoxide	0.010		Chlordane, cis-	0.010		Demeton-s-methyl	0.020
Aldrin	0.010		Chlordane, trans-	0.010		Desmedipham	0.010
Ametoctradin	0.010		Chlordimeform	0.010		Diallate	0.010
Ametryn	0.010		Chlorfenapyr	0.020		Diazinon	0.010
Aminocyclopyrachlor	0.010		Chlorfenson (Ovex)	0.010		Diazoxon	0.010
Anilazine	0.030		Chlorfenvinphos	0.010		Dicamba (Banvel)	0.010
Aspon	0.010		Chlorimuron-ethyl	0.010		Dichlobenil	0.010
Asulam	0.010		Chlornitrofen (CNP)	0.020		Dichlofenthion	0.010
Atrazine	0.010		Chlorobenzilate	0.010		Dichlofluanid	0.010
Atrazine-desethyl	0.010		Chloroneb	0.010		Dichlorobenzamide	0.010
Azinphos-ethyl	0.010		Chlorothalonil	0.040		Dichlorvos	0.010
Azinphos-methyl	0.010		Chlorpropham (CIPC)	0.010		Diclobutrazol	0.010
Azoxystrobin	0.010		Chlorpyrifos (ethyl)	0.010		Diclofop (acid)	0.010
Benalaxyl	0.010		Chlorpyrifos-methyl	0.010		Diclofop-methyl	0.010
Bendiocarb	0.010		Chlorsulfuron	0.010		Dicloran	0.040
Benfluralin	0.010		Chlorthal-dimethyl (Dacthal)	0.010		Dicofol, p,p'-/o,p'-	0.020
Benoxacor	0.010		Chlorthion	0.020		Dicrotophos	0.010
Bensulide	0.010		Chlorthiophos	0.010		Dieldrin	0.010
Bentazon	0.010		Clethodim	0.010		Diethofencarb	0.010
BHC alpha isomer	0.010		Clethodim sulfone	0.010		Diethyltoluamide (DEET)	0.010
BHC beta isomer	0.010		Clethodim sulfoxide	0.010		Difenoconazole	0.010
BHC delta isomer	0.010		Clofentezine	0.010		Diflubenzuron	0.010
Bifenazate	0.010		Clomazone	0.010		Diflufenzopyr	0.010
Bifenox	0.010		Clopyralid	0.010		Dimethenamid	0.010
Bifenthrin	0.010		Clothianidin	0.010		Dimethoate	0.010
Binapacryl	0.040		Coumaphos	0.010		Dimethomorph	0.010
Bitertanol	0.020		Crotoxyphos	0.010		Diniconazole	0.010
Boscalid	0.010		Cyanazine	0.010		Dinocap	0.010
Bromacil	0.020		Cyanofenphos	0.010		Dinoseb (Dinitro)	0.010
Bromophos-methyl	0.010		Cyanophos	0.040		Dinotefuran	0.010
Bromophos-ethyl	0.020		Cyantraniliprole	0.010		Dioxathion	0.010
Bromopropylate	0.010		Cyazofamid	0.010		Diphenamid	0.010
Bromoxynil	0.010		Cycloate	0.010		Diphenylamine (DPA)	0.010
Bromuconazole	0.010		Cycloxydim	0.010		Disulfoton	0.020
Bupirimate	0.010		Cyfluthrin	0.030		Disulfoton sulfone	0.010
Buprofezin	0.010		Cyhalothrin, lambda	0.010		Disulfoton sulfoxide	0.010

LOQ = Limit of Quantitation, mg/kg: If an amount below this level is detected (and the identity confirmed), it may be reported as "Trace".
MDL = Method Detection Limit = LOQ

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Columbia Laboratories, Inc

P2220 Multi-Residue Profile, Limits of Quantitation (MDL Sheet)

Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)
Dithianon	0.010		Flufenacet	0.010		Isoxaflutole	0.010
Diuron	0.010		Flumioxazin	0.010		Kresoxim-methyl	0.010
DNOC	0.010		Fluometuron	0.010		Lactofen	0.020
Edifenphos	0.010		Fluopicolide	0.010		Lenacil	0.010
Endosulfan (α isomer)	0.020		Fluopyram	0.010		Lindane	0.010
Endosulfan (β isomer)	0.020		Fluoxastrobin	0.010		Linuron	0.010
Endosulfan sulfate	0.010		Flupyradifurone	0.010		Malaoxon (Malathion-o-analog)	0.010
Endrin	0.020		Fluridone	0.010		Malathion	0.010
Endrin aldehyde	0.020		Fluroxypyr (free acid)	0.010		Mandipropamid	0.010
EPN	0.010		Flusilazol	0.010		MCPA	0.010
EPTC	0.010		Fluthiacet Methyl	0.010		MCPB	0.010
Esfenvalerate/Fenvalerate	0.020		Flutolanil	0.010		MCPP (Mecoprop)	0.010
Etaconazole	0.010		Flutriafol	0.010		Mecarbam	0.010
Ethalfluralin	0.010		Fluvalinate -tau	0.010		Mepanipyrim	0.010
Ethiofencarb	0.010		Fluxapyroxad	0.010		Mesosulfuron Methyl	0.010
Ethion	0.010		Folpet	0.020		Mesotrione	0.010
Ethirimol	0.010		Fomesafen	0.010		Metalaxyl/Mefenoxam	0.010
Ethofumesate	0.010		Fonofos	0.010		Metconazole	0.010
Ethoprophos	0.010		Foramsulfuron	0.010		Methacrifos	0.010
Ethoxyquin	0.010		Forchlorfenuron	0.010		Methamidophos	0.010
Etofenprox	0.010		Formetanate	0.010		Methidathion	0.010
Etoxazole	0.010		Furathiocarb	0.010		Methiocarb	0.010
Etridiazole	0.010		Halosulfuron-methyl	0.010		Methiocarb sulfone	0.010
Etrimfos	0.010		Haloxyfop (free acid)	0.010		Methiocarb sulfoxide	0.010
Famoxadone	0.020		Heptachlor & Heptachlor epoxide	0.010		Methomyl	0.010
Famphur	0.010		Hexachlorobenzene (HCB)	0.010		Methoxychlor	0.010
Fenamidone	0.010		Hexaconazole	0.010		Methoxyfenozide	0.010
Fenamiphos	0.010		Hexazinone (Velpar)	0.010		Metobromuron	0.010
Fenamiphos Sulfone	0.010		Hexythiazox	0.010		Metolachlor	0.010
Fenamiphos Sulfoxide	0.010		Hydroprene	0.010		Metolcarb	0.010
Fenarimol	0.010		Imazalil	0.010		Metrafenone	0.010
Fenazaquin	0.010		Imazamox	0.010		Metribuzin	0.010
Fenbuconazole	0.010		Imazapic	0.010		Metsulfuron-methyl	0.010
Fenbutatin oxide	0.010		Imazapyr	0.010		Mevinphos	0.010
Fenchlorphos	0.010		Imazaquin	0.010		Mexacarbate	0.010
Fenhexamid	0.010		Imazethapyr	0.010		MGK-264	0.010
Fenitrothion	0.010		Imidacloprid	0.010		Mirex	0.010
Fenobucarb (Baycarb)	0.010		Imidoxone (Phosmet-Oxon)	0.010		Molinate	0.010
Fenoxaprop-P-Ethyl	0.010		Indaziflam	0.010		Monocrotophos	0.010
Fenoxycarb	0.010		Indoxacarb	0.010		Monolinuron	0.010
Fenpropathrin	0.010		Iprobenfos	0.010		Myclobutanil	0.010
Fenpyroximate	0.010		Iprodione	0.020		Naled	0.010
Fenson	0.020		Isazophos	0.010		Napropamide	0.010
Fensulfothion	0.010		Isobenzan	0.010		Neburon	0.010
Fenthion	0.010		Isocarbophos	0.010		Nicosulfuron	0.010
Fenuron	0.010		Isodrin	0.010		Nitrapyrin	0.020
Fipronil	0.010		Isofenphos	0.010		Nitrofen	0.020
Flonicamid	0.010		Isofenphos-methyl/ OA	0.010		Norflurazon	0.010
Fluazifop	0.010		Isoprocarb	0.010		Novaluron	0.010
Fluazinam	0.010		Isopropalin	0.010		Nuarimol	0.020
Fluchloralin	0.010		Isoprothiolane	0.010		Omethoate	0.010
Flucythrinate	0.030		Isoproturon	0.010		O-Phenylphenol	0.010
Fludioxonil	0.010		Isoxaben	0.010		Oryzalin	0.010

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Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)		Compound	LOQ (mg/kg)
Compound	0.010		Propanil	0.010		Tembotrione	0.010
Oxadiazon	0.010		Propargite	0.010		Terbacil	0.040
Oxadixyl	0.010		Propazine	0.010		Terbufos	0.010
Oxamyl	0.010		Propetamphos	0.010		Terbufos sulfone	0.010
Oxamyl-oxime	0.010		Propham	0.010		Terbufos sulfoxide	0.010
Oxychlordane	0.010		Propiconazole	0.010		Terbuthylazine	0.010
Oxydemeton-Methyl	0.010		Propoxur	0.010		Terbutryn	0.010
Oxyfluorfen	0.010		Propoxycarbazone sodium	0.010		Tertrachlorvinphos	0.010
Oxythioquinox	0.020		Prosulfuron	0.010		Tetraconazole	0.010
Paclobutrazol	0.010		Prothioconazole	0.010		Tetradifon	0.010
Paraoxon-methyl/ethyl	0.010		Prothiofos	0.010		Tetramethrin	0.010
Parathion-ethyl	0.010		Pymetrozine	0.010		Tetrasul	0.010
Parathion-methyl	0.030		Pyraclostrobin	0.010		Thiabendazole	0.010
PCP (Pentachlorophenol)	0.010		Pyraflufen-ethyl	0.010		Thiabendazole, 5-hydroxy	0.010
Penconazole	0.010		Pyrazophos	0.010		Thiacloprid	0.010
Pendimethalin	0.010		Pyrethrins	0.010		Thiamethoxam	0.010
Penflufen	0.010		Pyridaben	0.010		Thifensulfuron-methyl	0.010
Pentachloroaniline (PCA)	0.010		Pyridate	0.010		Thiobencarb (benthiocarb)	0.010
Pentachloroanisole	0.010		Pyrimethanil	0.010		Thiodicarb	0.010
Pentachlorobenzene (PCB)	0.010		Pyriproxifen	0.010		Thiometon	0.020
Pentachlorothioanisole (PCTA)	0.030		Pyroxasulfone	0.010		Thionazin	0.010
Penthiopyrad	0.010		Pyroxsulam	0.010		Thiophanate-methyl	0.010
Permethrin	0.010		Quinalphos	0.010		Tolclofos-methyl	0.010
Perthane	0.010		Quinclorac	0.010		Tolfenpyrad	0.010
Phenmedipham	0.010		Quinoxyfen	0.010		Tolylfluanid	0.010
Phenothrin	0.010		Quintozene(PCNB)	0.010		Topramezone	0.010
Phenthoate	0.010		Quizalofop (free acid)	0.010		Tralkoxydim	0.010
Phorate	0.010		Resmethrin	0.010		Triadimefon	0.010
Phorate OA	0.010		Rimsulfuron	0.010		Triadimenol	0.010
Phorate Sulfone	0.010		Rotenone	0.010		Tri-allate	0.010
Phorate Sulfoxide	0.010		S-421	0.010		Triasulfuron	0.010
Phosalone	0.010		Saflufenacil	0.010		Triazophos	0.010
Phosmet	0.010		Sebuthylazine	0.010		Tribenuron-methyl	0.010
Phosphamidon	0.010		Sethoxydim	0.010		Trichlorfon	0.010
Phoxim	0.010		Simazine	0.010		Triclopyr	0.020
Phthalimide	0.020		Simetryn	0.010		Trifloxystrobin	0.010
Picloram	0.010		Spinetoram	0.010		Trifloxysulfuron -sodium	0.010
Pinoxaden	0.010		Spinosad (α, β isomers)	0.010		Triflumizole	0.010
Piperonyl Butoxide	0.010		Spirodiclofen	0.010		Trifluralin	0.010
Pirimicarb	0.010		Spiromesifen	0.010		Triflusulfuron-methyl	0.010
Pirimiphos-Ethyl	0.010		Spirotetramat	0.010		Triforin	0.010
Pirimiphos-Methyl	0.010		Spirotetramat-enol	0.010		Trinexapac (acid)	0.010
Pirimisulfuron-Methyl	0.010		Spiroxamine	0.010		Trinexapac Ethyl	0.010
Prallethrin	0.010		Sulfallate	0.010		Triticonazole	0.010
Prochloraz	0.010		Sulfentrazone	0.030		Vinclozolin	0.010
Procymidone	0.010		Sulfometuron-methyl	0.010		Zoxamide	0.010
Prodiamine	0.010		Sulfosulfuron	0.010			
Profenofos	0.010		Sulfotep	0.010			
Profluralin	0.010		Sulfoxaflor	0.010			
Promecarb	0.010		Sulprofos	0.010			
Prometon	0.010		Tebuconazole	0.010			
Prometryne	0.010		Tebufenozide	0.010			
Pronamide (Propyzamide)	0.010		Tebuthiuron	0.010			
Propachlor	0.010		Tecnazene	0.010			
Propamocarb	0.010		Tefluthrin	0.010			

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LOQs above are typical of most analyses. Factors affecting the LOQ include instrumentation sensitivity for a particular analyte, sample size, moisture content (percent solids) of the sample, effectiveness of the cleanup on the sample extract, and especially the type of sample matrix.

3 of 3

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