

VEREENIGDE LABORATORIA DRS. W.H. NAGEL B.V.

HANDELSREGISTER 33115.446 AMSTERDAM

CHEMICAL ANALYSES,
SURVEY AND SAMPLING
FOR TRADE AND INDUSTRY

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Republica Dominicana

Date: January 16th, 2019

CERTIFICATE of ANALYSIS nr: 1900132

Sample said to be : Cocoa powder
Sample received : January 11th, 2019
Instructions received : January 9th, 2019
Analysis started at : January 11th, 2019
Packed : Plastic bag (abt. 150 g)

Marked : /.

Sealed : /.

The sample as detailed has been analysed and showed the following results:

Pesticides residues* (GC-MS + LC-MS)
0 pesticide(s) detected above the limit of quantification.

(GC-MS):

Anthraquinone.....	<0,010 mg/kg
Azoxystrobin.....	<0,010 mg/kg
Biphenyl.....	<0,010 mg/kg
Fenoxycarb.....	<0,010 mg/kg
Isoprothiolane.....	<0,010 mg/kg
Piperonylbutoxide.....	<0,010 mg/kg
Phenylphenol, 2-.....	<0,010 mg/kg
Propargite.....	<0,010 mg/kg
Oxyfluorfen.....	<0,010 mg/kg

Chloro based pesticides

Aldrin.....	<0,010 mg/kg
Bifenox.....	<0,010 mg/kg
Bromproprylate.....	<0,010 mg/kg
Captafol.....	<0,010 mg/kg
Captan (as THPI).....	<0,010 mg/kg
Chlordan-cis.....	<0,010 mg/kg
Chlordan-trans.....	<0,010 mg/kg
Chlorobenzilate.....	<0,010 mg/kg
Chloroneb.....	<0,010 mg/kg
Chlorothalonil.....	<0,010 mg/kg
o,p-DDD.....	<0,005 mg/kg

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[Q] = Analysis accredited by the RvA (L296) according to ISO 17025.

*= outsourced.

p,p-DDD.....	<0,005 mg/kg
o,p-DDE.....	<0,005 mg/kg
p,p-DDE.....	<0,005 mg/kg
o,p-DDT.....	<0,005 mg/kg
p,p-DDT.....	<0,005 mg/kg
Diallate.....	<0,010 mg/kg
Dichlofluanid.....	<0,010 mg/kg
Dicofol.....	<0,010 mg/kg
Dieldrin.....	<0,010 mg/kg
Endosulfan-Alpha.....	<0,010 mg/kg
Endosulfan-Beta.....	<0,010 mg/kg
Endosulfansulphate.....	<0,010 mg/kg
Endrin.....	<0,010 mg/kg
Folpet.....	<0,010 mg/kg
Alpha HCH.....	<0,005 mg/kg
Beta HCH.....	<0,005 mg/kg
Delta HCH.....	<0,005 mg/kg
Gamma HCH (Lindane).....	<0,005 mg/kg
Heptachlor.....	<0,010 mg/kg
Heptachlorepoxyde-cis.....	<0,010 mg/kg
Heptachlorepoxyde-trans.....	<0,010 mg/kg
Hexachlorobenzene (HCB).....	<0,010 mg/kg
Iprodione.....	<0,010 mg/kg
Isodrin.....	<0,010 mg/kg
Methoxychlor.....	<0,010 mg/kg
Nitrofen.....	<0,010 mg/kg
Nonachlor (cis+trans).....	<0,010 mg/kg
Pentachlorobenzene (PCB).....	<0,010 mg/kg
Perthan (Ethyln).....	<0,010 mg/kg
Procymidon.....	<0,010 mg/kg
Quintozeen.....	<0,010 mg/kg
Tecnazene.....	<0,010 mg/kg
Tetradifon.....	<0,010 mg/kg
Toxaphene P26.....	<0,010 mg/kg
Toxaphene P50.....	<0,010 mg/kg
Toxaphene P62.....	<0,010 mg/kg
Toxaphene (som).....	<0,010 mg/kg
Triallate.....	<0,010 mg/kg
Vinclozolin.....	<0,010 mg/kg

Nitrogen based pesticides

Alachlor.....	<0,010 mg/kg
Amitraz.....	<0,010 mg/kg
Atrazine.....	<0,010 mg/kg
Bitertanol.....	<0,010 mg/kg
Buprofezin.....	<0,010 mg/kg
Chloridazon.....	<0,010 mg/kg
Chlorbufam.....	<0,010 mg/kg
Chlorpropham.....	<0,010 mg/kg
Cyanazine.....	<0,010 mg/kg
Dichlobenil.....	<0,010 mg/kg
Diphenylamine.....	<0,010 mg/kg
Famoxadone.....	<0,010 mg/kg
Fenarimol.....	<0,010 mg/kg
Metazachloor.....	<0,010 mg/kg
Metholachlor.....	<0,010 mg/kg
Prometryn.....	<0,010 mg/kg
Propazine.....	<0,010 mg/kg
Propham.....	<0,010 mg/kg
Propiconazole.....	<0,010 mg/kg
Propyzamide.....	<0,010 mg/kg
Pyrifenox.....	<0,010 mg/kg

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Simazine.....	<0,010 mg/kg
Tebuconazol.....	<0,010 mg/kg
Terbutryn.....	<0,010 mg/kg
Trifluralin.....	<0,010 mg/kg

Phosphor based pesticides

Azinphos-ethyl.....	<0,010 mg/kg
Azinphos-methyl.....	<0,010 mg/kg
Bromophos-ethyl.....	<0,010 mg/kg
Bromophos-methyl.....	<0,010 mg/kg
Cadusafos.....	<0,010 mg/kg
Carbophenothion.....	<0,010 mg/kg
Chlorfenvinphos.....	<0,010 mg/kg
Chloromephos.....	<0,010 mg/kg
Chlorpyriphos.....	<0,010 mg/kg
Chloropyriphos-methyl.....	<0,010 mg/kg
Chlorthiophos.....	<0,010 mg/kg
Coumaphos.....	<0,010 mg/kg
Cyanofenphos.....	<0,010 mg/kg
Diazinon.....	<0,010 mg/kg
Dichlorvos.....	<0,010 mg/kg
Diclotophos.....	<0,010 mg/kg
Dimethoate.....	<0,010 mg/kg
Disulfoton.....	<0,010 mg/kg
EPN.....	<0,010 mg/kg
Ethion.....	<0,010 mg/kg
Ethoprofos.....	<0,010 mg/kg
Etrimfos.....	<0,010 mg/kg
Fenitrothion.....	<0,010 mg/kg
Fenthion.....	<0,010 mg/kg
Fonofos.....	<0,010 mg/kg
Heptenophos.....	<0,010 mg/kg
Hexazinone.....	<0,010 mg/kg
Malathion.....	<0,010 mg/kg
Mevinphos (E+Z).....	<0,010 mg/kg
Parathion-ethyl.....	<0,010 mg/kg
Parathion-methyl.....	<0,010 mg/kg
Phorate.....	<0,010 mg/kg
Phosalone.....	<0,010 mg/kg
Phosmet.....	<0,010 mg/kg
Phosphamidon (E+Z).....	<0,010 mg/kg
Pirimiphos-ethyl.....	<0,010 mg/kg
Pirimiphos-methyl.....	<0,010 mg/kg
Profenophos.....	<0,010 mg/kg
Sulfotepp.....	<0,010 mg/kg
Terbufos.....	<0,010 mg/kg
Thiomethon.....	<0,010 mg/kg
Tolclofos-methyl.....	<0,010 mg/kg
Triazofos.....	<0,010 mg/kg

Pyrethroids

Bifenthrin.....	<0,010 mg/kg
Cyfluthrin I.....	<0,010 mg/kg
Cyfluthrin II.....	<0,010 mg/kg
Cyfluthrin III.....	<0,010 mg/kg
Cyhalothrin (Lambda).....	<0,010 mg/kg
Cypermethrin (sum).....	<0,010 mg/kg
Deltamethrin.....	<0,010 mg/kg
Fenpropathrin.....	<0,010 mg/kg
Fenvalerate (es).....	<0,010 mg/kg
Flucythrinate.....	<0,010 mg/kg
Fluvalinate (tau).....	<0,010 mg/kg

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Permethrin I.....	<0,010 mg/kg
Permethrin II.....	<0,010 mg/kg
Phenothrin.....	<0,010 mg/kg
Pyrethrinen (sum).....	<0,010 mg/kg

Pesticides (LC-MSMS)(pos. ionisation):

Acephate.....	<0,010 mg/kg
Acetamiprid.....	<0,010 mg/kg
Aldicarb.....	<0,010 mg/kg
Aldicarb sulfon.....	<0,010 mg/kg
Aldicarb sulfoxide.....	<0,010 mg/kg
Ametryn.....	<0,010 mg/kg
Aminocarp.....	<0,010 mg/kg
Azaconazole.....	<0,010 mg/kg
Benalaxyl.....	<0,010 mg/kg
Bendiocarb.....	<0,010 mg/kg
Benodanil.....	<0,010 mg/kg
Benzoyl-prop-ethyl.....	<0,010 mg/kg
Bifenazate.....	<0,010 mg/kg
Boscalid.....	<0,010 mg/kg
Bupirimate.....	<0,010 mg/kg
Butocarboxim sulfoxide.....	<0,010 mg/kg
Butoxycarboxim.....	<0,010 mg/kg
Buturon.....	<0,010 mg/kg
Carbaryl.....	<0,010 mg/kg
Carbendazim.....	<0,010 mg/kg
Carbofuran.....	<0,010 mg/kg
Carboxin.....	<0,010 mg/kg
Clothianidin.....	<0,010 mg/kg
Cyprodinil.....	<0,010 mg/kg
Daminozide.....	<0,010 mg/kg
Demeton-s/Demeton-o.....	<0,010 mg/kg
Demeton-s-methyl-sulfon.....	<0,010 mg/kg
Desmethyl-pirimicarb.....	<0,010 mg/kg
Diethyltoluamid (DEET).....	<0,010 mg/kg
Difenoconazole.....	<0,010 mg/kg
Difenoxyuron.....	<0,010 mg/kg
Dimefuron.....	<0,010 mg/kg
Dimethachlor.....	<0,010 mg/kg
Dimethenamid-P.....	<0,010 mg/kg
Dimithirimol.....	<0,010 mg/kg
Dimethomorph (E + Z).....	<0,010 mg/kg
Diniconazole.....	<0,010 mg/kg
Diphenamid.....	<0,010 mg/kg
Dipropetryn.....	<0,010 mg/kg
Disulfoton-sulfone.....	<0,010 mg/kg
DMST.....	<0,010 mg/kg
Dodine.....	<0,010 mg/kg
Etaconazole.....	<0,010 mg/kg
Ethiofencarb.....	<0,010 mg/kg
Ethiofencarb sulfone.....	<0,010 mg/kg
Ethiprole.....	<0,010 mg/kg
Etherimol.....	<0,010 mg/kg
Fenamiphos.....	<0,010 mg/kg
Fenamiphos sulphoxide.....	<0,010 mg/kg
Fenbuconazol.....	<0,010 mg/kg
Fenfuram.....	<0,010 mg/kg
Fenhexamid.....	<0,010 mg/kg
Fenobucarb.....	<0,010 mg/kg
Fenpyroximat.....	<0,010 mg/kg
Fensulfothion.....	<0,010 mg/kg
Fenthion sulphoxide.....	<0,010 mg/kg

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Fluoxastrobin.....	<0,010 mg/kg
Haloxfyfob including haloxfyfop-R.....	<0,010 mg/kg
Hexythiazox.....	<0,010 mg/kg
Imazalil.....	<0,010 mg/kg
Imidacloprid.....	<0,010 mg/kg
Indoxacarb.....	<0,010 mg/kg
Iprovalicarb.....	<0,010 mg/kg
Isocarbofos.....	<0,010 mg/kg
Isofenphos-methyl.....	<0,010 mg/kg
Kresoxym-methyl.....	<0,010 mg/kg
Linuron.....	<0,010 mg/kg
Mecarbam.....	<0,010 mg/kg
Metalaxyl.....	<0,010 mg/kg
Metamitron.....	<0,010 mg/kg
Metasystox I.....	<0,010 mg/kg
Methamidophos.....	<0,010 mg/kg
Methidathion.....	<0,010 mg/kg
Methiocarb.....	<0,010 mg/kg
Methomyl.....	<0,010 mg/kg
Methoxyfenozide.....	<0,010 mg/kg
Metrafenone.....	<0,010 mg/kg
Monocrotophos.....	<0,010 mg/kg
Monolinuron.....	<0,010 mg/kg
Myclobutanil.....	<0,010 mg/kg
Nitenpyram.....	<0,010 mg/kg
Omethoate.....	<0,010 mg/kg
Oxamyl.....	<0,010 mg/kg
Oxydemeton-methyl.....	<0,010 mg/kg
Penconazole.....	<0,010 mg/kg
Pencycuron.....	<0,010 mg/kg
Phorate sulfone.....	<0,010 mg/kg
Phorate sulfoxide.....	<0,010 mg/kg
Pirimicarb.....	<0,010 mg/kg
Prochloraz.....	<0,010 mg/kg
Propamocarb.....	<0,010 mg/kg
Propoxur.....	<0,010 mg/kg
Pyraclostrobin.....	<0,010 mg/kg
Pyrimethanil.....	<0,010 mg/kg
Pyriproxyfen.....	<0,010 mg/kg
Quinchlorac.....	<0,010 mg/kg
Quinoxyfen.....	<0,010 mg/kg
Spinosad A+D.....	<0,010 mg/kg
Spirotetramat.....	<0,010 mg/kg
Spiroxamine.....	<0,010 mg/kg
Tebufenozid.....	<0,010 mg/kg
Tetraconazole.....	<0,010 mg/kg
Thiabendazole.....	<0,010 mg/kg
Thiacloprid.....	<0,010 mg/kg
Thiamethoxam.....	<0,010 mg/kg
Thiophanate-methyl.....	<0,010 mg/kg
Tolyfluanid.....	<0,010 mg/kg
Triadimefon.....	<0,010 mg/kg
Triadimenol.....	<0,010 mg/kg
Trifloxystrobin.....	<0,010 mg/kg
Triforine.....	<0,010 mg/kg
Pesticides (LC-MSMS)(neg. ionisation):	
4-chloro-3-methylphenol.....	<0,010 mg/kg
Acrinathrin.....	<0,010 mg/kg
Chlorfluazuron.....	<0,010 mg/kg
Chlorothalonil.....	<0,010 mg/kg
Clethodim.....	<0,010 mg/kg

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Cyclanilide.....	<0,010 mg/kg
Cythioate.....	<0,010 mg/kg
Dinoseb.....	<0,010 mg/kg
Dinoterb.....	<0,010 mg/kg
Diuron.....	<0,010 mg/kg
DMSA.....	<0,010 mg/kg
Fenpiclonil.....	<0,010 mg/kg
Fipronil (sum).....	<0,005 mg/kg
Fluazinam.....	<0,010 mg/kg
Flubendiamide.....	<0,010 mg/kg
Fluonethuron.....	<0,010 mg/kg
Fludioxinil.....	<0,010 mg/kg
Flutolanil.....	<0,010 mg/kg
Hexaconazole.....	<0,010 mg/kg
Imazamethabenz-methyl.....	<0,010 mg/kg
Isoxaflutole.....	<0,010 mg/kg
Mepronil.....	<0,010 mg/kg
Monuron.....	<0,010 mg/kg
Neburon.....	<0,010 mg/kg
Norflurazon.....	<0,010 mg/kg
Picolinafen.....	<0,010 mg/kg
Propanil.....	<0,010 mg/kg
Prothioconazole.....	<0,010 mg/kg
Silthiofam.....	<0,010 mg/kg
Sulfosulfuron.....	<0,010 mg/kg
Terbacil.....	<0,010 mg/kg
Triasulfuron.....	<0,010 mg/kg
Triflusalufuron-methyl.....	<0,010 mg/kg

Phenoxy-carboxylic acid pesticides (LC-MSMS neg.):

2,4 D (2,4-dichlorophenoxy) acetic.....	<0,010 mg/kg
MCPA.....	<0,010 mg/kg
MCPB.....	<0,010 mg/kg
Mecoprop.....	<0,010 mg/kg

Urea pesticides (LC-MSMS neg.):

Chloroxuron.....	<0,010 mg/kg
Diflubenzuron.....	<0,010 mg/kg
Flucyclohexuron (E + Z).....	<0,010 mg/kg
Hexaflumuron.....	<0,010 mg/kg
Lufenuron.....	<0,010 mg/kg
Noviflumuron.....	<0,010 mg/kg
Teflubenzuron.....	<0,010 mg/kg
Triflumuron.....	<0,010 mg/kg

Vereenigde Laboratoria
Drs. W.H. Nagel B.V.

P.A. Thijsse
Director

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