

**Analytical Report Nr.** AR-20-GB-056833-03-N  
**Sample code Nr.** 691-2020-00050385

**Date** 03/31/2020  
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*(\*\*this report cancels and replaces the previous one, numbered AR-20-GB-056833-02/691-2020-00050385 dated 03/31/2020 which must be destroyed)*

**Changes made:** Addition of information provided by the client.



**POPCORN INDUSTRIA E COMERCIO DE CEREAIS LTDA**

**Exportação**

exportacao@agricolalucas.com.br

RUA RECIFE N.300

N

INDUSTRIAL

78455000 LUCAS DO RIO VERDE/MT

BRASIL

**Client Reference:** 2020220048.01/02  
**Sample described as:** 2020220048.01/02  
005-07727-0000532435  
PO 10P-2020 LOT 2020220048.01/02  
GERGELIM NATURAL  
**Conditioning:** Sesame in plastic packing  
**Your purchase order date:** 03/11/2020  
**Sample reception date:** 03/12/2020  
**Analysis Starting Date:** 03/16/2020  
**Analysis Ending Date:** 03/31/2020  
**Amount** 1146g

**Test Results**

Parameter	Result	Unit
<b>GR418 GR Arsenic (As) - Total</b> Arsenic (As)	<0.02*	mg/kg
<b>GR423 GR Cadmium (Cd) - Total</b> Cadmium (Cd)	<0.02*	mg/kg
<b>GR425 GR Lead (Pb) - Total</b> Lead (Pb)	<0.04*	mg/kg
<b>GR455 GR Mercury (Hg) - Total</b> Mercury	<0.01*	mg/kg

**Agrochemicals**

Parameter	Result	Unit
<b>GBP13 GB Multiresidues Quechers GC</b> No pesticide residues quantified Other screened pesticides	- <LQ*	- -
<b>GBP14 GB Multiresidues Quechers GC</b> No pesticide residues quantified Other screened pesticides	- <LQ*	- -
<b>GBP60 GB Pesticides Quechers LC</b> No pesticide residues quantified Other screened pesticides	- <LQ*	mg/kg -

**Microbiological analysis**

Parameter	Result	Unit
<b>UMAGY GB Salmonella D Abs Pres /25 g BACGene Salmonella spp</b> Salmonella	Not Detected	/25 g

**Mycotoxins**

Parameter	Result	Unit
<b>GBM15 GB Aflatoxins B1,B2, G1,G2 (HPLC)</b> Aflatoxin B1	<1.50*	µg/kg

**Eurofins do Brasil Análises de Alimentos Ltda**

Rod. Eng. Ermênio O. Penteado, Km 57,7 s/n

Condomínio Industrial -Prédio 1

Bairro Tombadouro

CEP 13337-300

Indaiatuba/São Paulo

BRAZIL

Phone+55 19 2107 5500

comercial@eurofins.com

www.eurofins.com.br

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### Mycotoxins

Parameter	Result	Unit
<b>GBM15 GB Aflatoxins B1,B2, G1,G2 (HPLC)</b>		
Aflatoxin B2	<0.50*	µg/kg
Aflatoxin G1	<1.50*	µg/kg
Aflatoxin G2	<0.50*	µg/kg

### List of screened molecules (LQ = limit of quantification)

#### GBP13 GB Multiresidues Quechers GC (LQ )

No pesticide residues quantified

#### GBP13 GB Multiresidues Quechers GC (LQ mg/kg)

Aldrin	0.01	Allethrin	0.02	Benfluralin	0.01	Bifenthrin	0.01	Bromopropylate	0.01
Chlordan	0.01	Chlorfenapyr	0.01	Chlorobenzilate	0.01	Cyfluthrin	0.02	Cyhalothrin lambda-	0.01
Cypermethrin	0.02	Cyphenothrin	0.01	DDT (total)	0.01	Deltamethrin	0.05	Dicloran	0.01
Dicofol, p,p-	0.01	Dieldrin	0.1	Endosulfan (Sume)	0.02	Endosulfan, alpha-	0.02	Endosulfan, beta-	0.02
Endosulfan-sulfate	0.02	Endrin	0.05	Fenvalerate & Esfenvalerate (Sum of RS&SR Isomers)	0.01	Flonicamid	0.01	gamma-HCH (Lindane)	0.01
HCH (alpha+beta+delta)	0.01	Heptachlor	0.01	Heptachlor epoxide	0.01	Hexachlorobenzene (HCB)	0.01	Imidan (Phosmet)	0.01
Kresoxim-methyl	0.01	Methoxychlor	0.02	Metribuzin	0.02	Mirex	0.01	Permethrin	0.01
Picoxystrobin	0.01	Procymidone	0.01	Quintozene	0.01	Tetradifon	0.01	Trifluralin	0.01

#### GBP14 GB Multiresidues Quechers GC (LQ )

No pesticide residues quantified

#### GBP14 GB Multiresidues Quechers GC (LQ mg/kg)

Bifenazate	0.01	Carbofenothion	0.01	Chlorfenvinphos	0.02	Chloroneb	0.01	Clomazone	0.01
Cyromazine	0.01	Dichlorvos	0.01	Dodemorf	0.01	Fenamidone	0.01	Fenarimol	0.01
Fenitrothion	0.01	Fenoxaprop-ethyl	0.01	Fipronil	0.01	Flucythrinate	0.01	Furathiocarb	0.01
Iprovalicarb	0.01	Nitrofen	0.01	o-Phenylphenol	0.01	Oxadixyl	0.02	Oxyfluorfen	0.01
Paclobutrazol	0.01	Paraoxon-ethyl	0.05	Parathion	0.02	Parathion-methyl	0.01	Phorate	0.01
Pirimicarb	0.02	Pirimiphos-methyl	0.01	Profenofos	0.01	Propyzamide	0.01	Pyrifenoxy	0.01
Simazine	0.01	Spiromesifen	0.01	Thiobencarb	0.01	Thionazin	0.01	Vinclozolin	0.01

#### GBP60 GB Pesticides Quechers LC (LQ mg/kg)

2,4,5-T	0.01	2,4-D	0.01	2,4'-Formoxylid (Amitraz Metabolite)	0.01	2,6-Dichlorobenzamide	0.01	2-Naphthoxyacetic acid	0.01
4-CPA	0.01	6-Benzyladenine	0.01	Acephate	0.01	Acetamidiprid	0.01	Acetochlor	0.01
Acibenzolar-s-methyl	0.01	Acifluorfen	0.01	Acrinathrin	0.01	Alachlor	0.01	Aldicarb-sulfoxide	0.01
Ametoctradin	0.01	Ametryn	0.01	Aminocarb	0.01	Amitraz	0.01	Anilofos	0.01
Atrazin, desisopropyl-	0.01	Atrazine	0.01	Azaconazole	0.01	Azadirachtin	0.01	Azoxystrobin	0.01
Benalaxyl	0.01	Bendiocarb	0.01	Benoxacor	0.01	Bentazone	0.01	Benthiavalicarb, isopropyl-	0.01
Bifenazate	0.01	Bitertanol	0.01	Bixafen	0.01	Boscalid	0.01	Brodifacoum	0.01
Bromoxynil	0.01	Bromconazole	0.01	BTS 27271	0.01	Bupirimate	0.01	Buprofezin	0.01
Butocarboxim-sulfoxide	0.01	Buturon	0.01	Butylate	0.01	Cadusaphos	0.01	Carbaryl	0.01
Carbendazim	0.01	Carbetamide	0.01	Carbofuran	0.01	Carbosulfan	0.01	Carboxin	0.01
Carfentrazone-ethyl	0.01	Chlorantraniliprole	0.01	Chlorbromuron	0.01	Chlorfluazuron	0.01	Chloridazone	0.01
Chlorimuron-Ethyl	0.01	Chlorotoluron	0.01	Chloroxuron	0.01	Chlorpyrifos (-ethyl)	0.01	Chlorpyrifos-methyl	0.01
Chlorthiophos	0.01	Chromafenozide	0.01	Cinidon-ethyl	0.01	Clethodim	0.01	Climbazole	0.01
Clofentezine	0.01	Clomazone	0.01	Clomeprop	0.01	Cloprop	0.01	Clothianidin	0.01
Coumaphos	0.01	Crimidine	0.01	Cyanazine	0.01	Cyanofenphos	0.01	Cyazofamid	0.01
Cycloate	0.01	Cycloxydim	0.01	Cyflumetofen	0.01	Cymoxanil	0.01	Cyproconazole	0.01
Cyprodinil	0.01	Cyromazine	0.01	Dazomet	0.01	Demeton-S-methyl	0.01	Demeton-S-methyl-sulfone	0.01

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Rod. Eng. Ermênio O. Pentead, Km 57,7 s/n

Condomínio Industrial -Prédio 1

Bairro Tombadouro

CEP 13337-300

Indaiatuba/São Paulo

BRAZIL

Phone+55 19 2107 5500

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GBP60	GB	Pesticides Quechers LC (LQ mg/kg)							
Diafenthion	0.01	Diallate	0.01	Diazinon	0.01	Dichlofenthion	0.01	Dichlormid	0.01
Dichlorprop	0.01	Dicrctophos	0.01	Diethofencarb	0.01	Diethyltoluamide	0.01	Difenacoum	0.01
Difenoconazole	0.01	Difenofoxuron	0.01	Diflubenzuron	0.01	Diflufenican	0.01	Dimefuron	0.01
Dimethachlor	0.01	Dimethenamid including other mixtures of constitute	0.01	Dimethoate	0.01	Dimethomorph	0.01	Dimetilan	0.01
Dimoxystrobin	0.01	Diniconazole	0.01	Dinoseb	0.01	Dinotefuran	0.01	Dinoterb	0.01
Dioxacarb	0.01	Diphenamid	0.01	Disulfoton	0.01	Diuron	0.01	Dodemorf	0.01
Dodine	0.01	EPN	0.01	Epoxiconazole	0.01	EPTC	0.01	Ethidimuron	0.01
Ethiofencarb (sum)	0.01	Ethion	0.01	Ethiprole	0.01	Ethirimol	0.01	Ethofumesate	0.01
Ethoprophos	0.01	Ethychlozate	0.01	Etofenprox	0.01	Etoxazole	0.01	Etrimfos	0.01
Famoxadone	0.01	Fenamidone	0.01	Fenamiphos	0.01	Fenamiphos-sulfoxide	0.01	Fenarimol	0.01
Fenazaquin	0.01	Fenbuconazole	0.01	Fenbutatin oxide	0.01	Fenhexamid	0.01	Fenobucarb	0.01
Fenoprop	0.01	Fenoxycarb	0.01	Fenpiclonil	0.01	Fenpropathrin	0.01	Fenpropidin	0.01
Fenpropimorph	0.01	Fenpyroximate	0.01	Fensulfothion	0.01	Fenthion	0.01	Fenthion-oxon	0.01
Fenthion-oxon-sulfone	0.01	Fipronil	0.01	Fipronil-sulfide	0.01	Fipronil-sulfone	0.01	Flonicamid	0.01
Fluazifop	0.01	Fluazifop-P-butyl	0.01	Fluazinam	0.01	Fluazuron	0.01	Flubendiamide	0.01
Flucycloxuron	0.01	Fludioxonil	0.01	Flufenacet	0.01	Flufenoxuron	0.01	Flumioxazin	0.01
Fluometuron	0.01	Fluopicolid	0.01	Fluopyram	0.01	Fluoroxypyr-1methyl heptyl	0.01	Fluoxastrobin	0.01
Fluquinconazole	0.01	Flurprimidol	0.01	Flurtamone	0.01	Flusilazole	0.01	Fluthiacet-methyl	0.01
Flutianil	0.01	Flutriafol	0.01	Fluxapyroxad	0.01	Fomesafen	0.01	Forchlorfenuron	0.01
Formetanate	0.01	Fosthiazate	0.01	Furalaxyl	0.01	Furametpyr	0.01	Haloxyp-R-methyl	0.01
Heptenophos	0.01	Hexaconazole	0.01	Hexazinone	0.01	Hexythiazox	0.01	Icaridin	0.01
Imazalil	0.01	Imazapyr	0.01	Imazethapyr	0.01	Imibenconazole	0.01	Imidacloprid	0.01
Indoxacarb (sum, R+S isomers)	0.01	Ioxynil	0.01	Iprodione	0.01	Iprovalicarb	0.01	Isazophos	0.01
Isoprocab	0.01	Isoprothiolane	0.01	Isoproturon	0.01	Isouron	0.01	Isoxaben	0.01
Lactofen	0.01	Lenacil	0.01	Linuron	0.01	Lufenuron	0.01	Malaoxon	0.01
Malathion	0.01	Mandipropamid	0.01	MCPA	0.01	MCPB	0.01	Mecoprop	0.01
Mepanipyrim	0.01	Metaflumizone	0.01	Metalaxyl	0.01	Metamitron	0.01	Metconazole	0.01
Methabenzthiazuron	0.01	Methacriphos	0.01	Methamidophos	0.01	Methidathion	0.01	Methiocarb	0.01
Methiocarb-sulfone	0.01	Methiocarb-sulfoxide	0.01	Methomyl	0.01	Methoxyfenozide	0.01	Metobromuron	0.01
Metolachlor	0.01	Metolcarb	0.01	Metoxuron	0.01	Metribuzin	0.01	Mevinphos	0.01
Molinate	0.01	Monocrotophos	0.01	Monolinuron	0.01	Monuron	0.01	Myclobutanil	0.01
Napropamide	0.01	Neburon	0.01	Nitenpyram	0.01	No pesticide residues quantified	0.01	Novaluron	0.01
Ofurace	0.01	Omethoate	0.01	Oryzalin	0.01	Oxadiazon	0.01	Oxadixyl	0.01
Oxamyl	0.01	Oxamyl-oxime	0.01	Oxaziclonofone	0.01	Oxendazole	0.01	Oxycarboxin	0.01
Oxydemeton-methyl	0.01	Paclobutrazol	0.01	Paraoxon-ethyl	0.01	Paraoxon-methyl	0.01	Pebulate	0.01
Pencycuron	0.01	Pendimethalin	0.01	Pentachlorophenol	0.01	Pentachlor	0.01	Penthiopyrad	0.01
Phenmedipham	0.01	Phenothrin	0.01	Phenthoate	0.01	Phorate-sulfone	0.01	Phorate-sulfoxide	0.01
Phosalone	0.01	Phosmet	0.01	Phosphamidon	0.01	Piperonyl butoxide	0.01	Pirimicarb	0.01
Pirimicarb, desmethyl-	0.01	Pirimiphos-methyl	0.01	Prochloraz	0.01	Procymidone	0.01	Profenofos	0.01
Prometon	0.01	Prometryn	0.01	Propamocarb (Sum of propamocarb and its salts, exp	0.01	Propanil	0.01	Propaquizafop	0.01
Propargite	0.01	Propham	0.01	Propiconazole	0.01	Propoxur	0.01	Propoxycarbazon	0.01
Propyzamide	0.01	Proquinazid	0.01	Prosulfocarb	0.01	Prothioconazole-desthio	0.01	Prothiofos	0.01
Pymetrozine	0.01	Pyraclostrobin	0.01	Pyrasulfotole	0.01	Pyraxophos	0.01	Pyridaben	0.01
Pyrimethanil	0.01	Pyriproxyfen	0.01	Quinoclamine	0.01	Quinoxifen	0.01	Quizalofop	0.01
Quizalofop ethyl	0.01	Rimsulfuron	0.01	Rotenone	0.01	Simazine	0.01	Simeconazole	0.01
Simetryn	0.01	Spinetoram	0.01	Spinosyn A	0.01	Spinosyn D	0.01	Spirodiclofen	0.01
Spirotetramat	0.01	Spirotetramat-enol	0.01	Spirotetramat-ketohydroxy	0.01	Spirotetramat-monohydroxy	0.01	Spiroxamine	0.01
Sulfentrazone	0.01	Sulfuramid	0.01	Sulfotep	0.01	Sulprofos-sulfoxide	0.01	Tebuconazole	0.01
Tebufenozide	0.01	Tebufenpyrad	0.01	Tebuthiuron	0.01	Teflubenzuron	0.01	Tepaloxymid	0.01
Terbacil	0.01	Terbufos-sulfone	0.01	Terbumeton	0.01	Terbutylazine	0.01	Tetraconazole	0.01

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Condomínio Industriale -Prédio 1

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CEP 13337-300

Indaiatuba/São Paulo

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GBP60	GB	Pesticides Quechers LC (LQ mg/kg)							
Thiabendazole	0.01	Thiacloprid	0.01	Thiamethoxam	0.01	Thifensulfuron methyl	0.01	Thiobencarb	0.01
Thiodicarb	0.01	Thiofanox-sulfoxide	0.01	Thiophanate-methyl	0.01	Tolclofos-methyl	0.01	Tolfenpyrad	0.01
Tralkoxydim	0.01	Triadimefon	0.01	Triadimenol	0.01	Triazophos	0.01	Trichlorfon	0.01
Triclopyr	0.01	Tricyclazole	0.01	Tridemorph	0.01	Trifloxystrobin	0.01	Triflumizole	0.01
Trimethacarb, 3,4,5-	0.01	Triticonazole	0.01	Vamidotion (sum)	0.01	Warfarin	0.01	XMC	0.01
Zoxamide	0.01								

### List of Methods

**GBM15 - Aflatoxins B1,B2, G1,G2 (HPLC):** POP-QM001/4, LC-FLD  
**GBP13 - Multiresidues Quechers GC:** POP-QP003/14, GC-MS  
**GBP14 - Multiresidues Quechers GC:** POP-QP003/14, GC-MS  
**GBP60 - Pesticides Quechers LC:** POP-QP015/2, LC-MS/MS  
**GR418 - Arsenic (As) - Total:** AOAC Intl. 2013.06, 20ed, 2016 and AOAC Intl. 2015.06, 20ed, 2016  
**GR423 - Cadmium (Cd) - Total:** AOAC Intl. 2013.06, 20ed, 2016 and AOAC Intl. 2015.06, 20ed, 2016  
**GR425 - Lead (Pb) - Total:** AOAC Intl. 2013.06, 20ed, 2016 and AOAC Intl. 2015.06, 20ed, 2016  
**GR455 - Mercury (Hg) - Total:** AOAC Intl. 2013.06, 20ed, 2016 and AOAC Intl. 2015.06, 20ed, 2016  
**UMAGY - Salmonella D Abs Pres /25 g BACGene Salmonella spp:** AFNOR EGS 38/01-03/15

### Comments and Conclusions:

Information provided by the client:

DIPASA EUROPE B.V.  
MARSSTEDEN 56  
7547 TD ENSCHEDE  
THE NETHERLANDS  
COMPANY VAT NUMBER: NL007924069B01  
T: +31 53 428 33 66

### EXPLANATORY NOTE

\* = Below Limit of Quantification

**NA** = Not Applicable      **ND** = Not Detected      **LQ** = Limit of Quantification

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Results have been obtained and reported in accordance with our general sales conditions available on request.

The tests identified by the two letters code GB are performed in laboratory Eurofins do Brasil Análises de Alimentos.

The tests identified by the two letters code GR are performed in laboratory Eurofins ALAC (Garibaldi).

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Report issued by Juliana Santa Rosa

**Technical contact for your orders:** analises@eurofins.com

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BRAZIL

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[www.eurofins.com.br](http://www.eurofins.com.br)