

Analytical Report Nr. AR-20-GB-056833-02-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-056833-01/691-2020-00050385 dated 03/31/2020 which must be destroyed)*

Changes made: Translation to English language.



POPCORN INDUSTRIA E COMERCIO DE CEREAIS LTDA

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

Agrochemicals

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

Microbiological analysis

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

Mycotoxins

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

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

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Mycotoxins

Parameter	Result	Unit
GBM15 GB Aflatoxins B1,B2, G1,G2 (HPLC)		
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	Pyrifeno	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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GBP60	GB	Pesticides Quechers LC (LQ mg/kg)							
Diafenthiuron	0.01	Diallate	0.01	Diazinon	0.01	Dichlofenthion	0.01	Dichlormid	0.01
Dichlorprop	0.01	Dicrotophos	0.01	Diethofencarb	0.01	Diethyltoluamide	0.01	Difenacoum	0.01
Difenoconazole	0.01	Difenoxyuron	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	Etrifmos	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	Haloxypfop-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	Oxfendazole	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	Pentanochlor	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	Terbuthylazine	0.01	Tetraconazole	0.01

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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	Vamidothion (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

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.

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Report issued by Juliana Santa Rosa

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Technical Manager - Biology

and/or

Gustavo Salerno
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