

Test Report

Berlin, 22.08.2019

Sample number: 19/089074
Client: BILLA Bulgaria Ltd.
 55 Bulgaria Blvd.
 Bulgaria-1404 Sofia
Date of entrance: 21.08.2019
Samplename: Apple Gala
Samplenummer customer: 00BBU19082007
Organic: no
Origin: Bulgaria
Unit: approx. 1,2 kg
Quantity: 1
Package: bulk product, transport packaging, sealed, label
Sampling: by client, sample entry by delivery service
Added Identification: Seal Nr. 0395340
Begin of examination: 21.08.2019
End of examination: 22.08.2019



Examination of pesticides¹⁾

Scope of testing:	Pestizides GC			
Examination method:	PV-SA-085 (GC) ² ; (GC-MS/MS) 2019-06			
Parameters	Unit	Result	MRL	RL
Captan	mg/kg	0,016		0,010
Tetrahydrophthalimide (Metabolit Captan)	mg/kg	<LoQ		0,010
Sum of captan and THPI, expressed as captan	mg/kg	0,016	10,00	0,010

Scope of testing:		pesticides LC		
Examination method:		PV-SA-085 (LC) ² ; (LC-MS/MS) 2019-06		
Parameters	Unit	Result	MRL	RL
Boscalid	mg/kg	0,014	2,00	0,010
Carbendazim	mg/kg	0,052		0,010
Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)	mg/kg	0,052	0,20	0,010
Chlorpyrifos	mg/kg	<LoQ	0,01	0,010
Dithianon	mg/kg	0,013	3,00	0,010
Fluxapyroxad	mg/kg	<LoQ	0,90	0,010
Methoxyfenozide	mg/kg	<LoQ	2,00	0,010
Penthiopyrad	mg/kg	<LoQ	0,50	0,010
Pyraclostrobin	mg/kg	<LoQ	0,50	0,010
Pyrimethanil	mg/kg	<LoQ	15,00	0,010
Spirotetramat	mg/kg	<LoQ		0,010
Spirotetramat-ketohydroxy	mg/kg	<LoQ		0,010
Spirotetramat-enol	mg/kg	<LoQ		0,010
Spirotetramat-enol-glucosid	mg/kg	<LoQ		0,010
Spirotetramat-monohydroxy	mg/kg	0,010		0,010
Spirotetramat and its 4 metabolites BYI08330-enol, BYI08330-ketohydroxy, BYI08330-monohydroxy, and BYI08330 enol-glucoside, expressed as spirotetramat	mg/kg	0,012	1,00	0,010
Thiophanat-Methyl	mg/kg	0,029	0,50	0,010

RL = Reporting limit

MRL = Maximum residue level

1) Overview of the examined pesticides after the Combi-method (PV-SA-085), state 21.08.2019

2) PV-SA-085: combined procedure from the methods DFG S19 and QuEChERS with the detection modules LC-MS/MS and GC-MSD

ARfD-Evaluation:

Substance	Content [mg/kg]	MRL [mg/kg]	EH MRL [%]	QC [g]	VF	Intake [mg/kg BW]	ARfD [mg/kg KG]	EH ARfD [%]	NoP
Captan	0,016			209,4	7	0,00172	n.e.	-	0
Tetrahydrophthalimide (Metabolite Captan)	<LoQ			209,4	7	0,00000	n.e.	-	0
Sum of captan and THPI, expressed as captan	0,016	10,00	0,2	209,4	7	0,00172	0,3000	0,6	1
Boscalid	0,014	2,00	0,7	209,4	7	0,00151	n.e.	-	1
Carbendazim	0,052			209,4	7	0,00560	0,0200	28,0	0
Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)	0,052	0,20	26,0	209,4	7	0,00560	n.e.	-	1
Chlorpyrifos	<LoQ	0,01	-	209,4	7	0,00000	0,0050	-	0
Dithianon	0,013	3,00	0,4	209,4	7	0,00140	0,1200	1,2	1
Fluxapyroxad	<LoQ	0,90		209,4	7	0,00000	0,2500	-	0
Methoxyfenozide	<LoQ	2,00		209,4	7	0,00000	0,1000	-	0
Penthiopyrad	<LoQ	0,50		209,4	7	0,00000	0,7500	-	0
Pyraclostrobin	<LoQ	0,50		209,4	7	0,00000	0,0300	-	0
Pyrimethanil	<LoQ	15,00		209,4	7	0,00000	n.e.	-	0
Spirotetramat	<LoQ			209,4	7	0,00000	n.e.	-	0
Spirotetramat-ketohydroxy	<LoQ			209,4	7	0,00000	n.e.	-	0
Spirotetramat-enol	<LoQ			209,4	7	0,00000	n.e.	-	0
Spirotetramat-enol-glucosid	<LoQ			209,4	7	0,00000	n.e.	-	0
Spirotetramat-monohydroxy	0,010			209,4	7	0,00108	n.e.	-	0
Spirotetramat and its 4 metabolites BY108330-enol, BY108330-ketohydroxy, BY108330-monohydroxy, and BY108330 enol-glucoside, expressed as spirotetramat	0,012	1,00	1,2	209,4	7	0,00129	1,0000	0,1	1
Thiophanat-Methyl	0,029	0,50	5,8	209,4	7	0,00313	0,2000	1,6	1

Calculation model: EFSA PRIMo rev3

Calculation model: 2a (Fruit weight: 148,33 g)

QC = Quantity of consumption

VF = Variability-factor

EH = Exhaustion

MRL = Maximum residue level

NoP = Number of Pesticides

n.e. = not exist

BW = Body weight

Referenced body weight: 10,2 kg

Conclusion

Within the scope of analysis the product meets the demands of the EU Regulation concerning the maximum residues levels for pesticides in or on food and is marketable [1,2].

References:

[1] Collection of texts on food law in the most current version, publisher C. H. Beck

[2] Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC