

Test Report

Berlin, 22.02.2019

Sample number: 19/020327
Client: BILLA Bulgaria Ltd.
 55 Bulgaria Blvd.
 Bulgaria-1404 Sofia
Date of entrance: 21.02.2019
Sample name: Champignons
Sample number customer: 00BBU19022001
Organic: no
Origin: Bulgaria
Grower:
Lot: L08/03
Unit: 250 g
Quantity: 5
Package: plastic tray, foil coating, label
Sampling: by client, sample entry by delivery service
Added Identification: Seal Nr. 0267386
Begin of examination: 22.02.2019
End of examination: 22.02.2019



Examination of pesticides¹⁾

Scope of testing:	Pestizides GC			
Examination method:	PV-SA-085 (GC) ² ; 2019-01			
Parameters	Unit	Result	MRL	RL
Pestizid-Screening		not detected		
Scope of testing:	pesticides LC			
Examination method:	PV-SA-085 (LC) ² ; 2019-01			
Parameters	Unit	Result	MRL	RL
Chlorpyrifos	mg/kg	0,14	0,01	0,010
Cypermethrin	mg/kg	0,032		0,010
Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	mg/kg	0,032	0,05	0,010
Prochloraz	mg/kg	0,015		0,010
Prochloraz (sum of prochloraz and its metabolites containing the 2,4,6-Trichlorophenol moiety expressed as prochloraz)	mg/kg	0,015	3,00	0,010

Scope of testing:	Chlormequat			
Examination method:	PV-SA-E-226; 2018-12			
Parameters	Unit	Result	MRL	RL
Chlormequat	mg/kg	<LoQ		0,005
Chlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)	mg/kg	<LoQ	0,90	0,005
Mepiquat	mg/kg	n.n.		0,005
Mepiquat (sum of mepiquat and its salts, expressed as mepiquat chloride)	mg/kg	n.n.	0,09	0,005

RL = Reporting limit

MRL = Maximum residue level

n.n. = not detected in accordance with the detection limit of the method

1) Overview of the examined pesticides after the Combi-method (PV-SA-085), state 29.01.2019

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
Chlorpyrifos	0,14	0,01	1.400,0	150,3	7	0,00236	0,0050	47,2	1
Cypermethrin	0,032			150,3	7	0,00054	0,0050	10,8	0
Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	0,032	0,05	64,0	150,3	7	0,00054	n.e.	-	1
Prochloraz	0,015			150,3	7	0,00025	n.e.	-	0
Prochloraz (sum of prochloraz and its metabolites containing the 2,4,6-Trichlorophenol moiety expressed as prochloraz)	0,015	3,00	0,5	150,3	7	0,00025	0,0250	1,0	1
Chlormequat	<LoQ			150,3	7	0,00000	n.e.	-	0
Chlormequat (sum of chlormequat and its salts, expressed as chlormequat-chloride)	<LoQ	0,90		150,3	7	0,00000	0,0900	-	0

Calculation model: EFSA PRIMo rev3

Calculation model: 2a (Fruit weight: 25 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: 17,8 kg

Conclusion

The examined sample contains chlorpyrifos at a concentration of 0.14 mg/kg, which exceeds the maximum residue level of 0.01 mg/kg. This maximum residue level is exceeded even in consideration of an expanded analytical measurement uncertainty of 50 %*.

Therefore, within the scope of analysis and in consideration of an expanded analytical measurement uncertainty the product does not meet the demands of the EU Regulation concerning the maximum residue levels for pesticides in or on food and is not marketable [1,2].

* Recommendation of Codex Committee in order to assess the measurement uncertainty by pesticide residues analysis (Document N° SANTE/11813/2017 from 22.11.2017).

References:

[1] Collection of texts on food law in the most current version, publisher house 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