

Test Report

Berlin, 21.02.2020

Sample number: 20/018928
Client: BILLA Bulgaria Ltd.
 55 Bulgaria Blvd.
 Bulgaria-1404 Sofia
Date of entrance: 19.02.2020
Samplename: Curly salad
Samplenummer customer: 00BBU20021802
Organic: no
Origin: Bulgaria
Grower:
Lot: L 08/02
Unit: approx. 1,1 kg
Quantity: 1
Package: bulk product, transport packaging, sealed, label
Sampling: by client, sample entry by delivery service
Added Identification: Seal Nr. 0464133
Begin of examination: 19.02.2020
End of examination: 21.02.2020



Examination of pesticides¹⁾

Scope of testing:		pestizides GC		
Parameters	Unit	Result	MRL	RL
Pestizid-Screening GC		not detected		
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	<LoQ	50,00	0,010
Fluopicolid	mg/kg	<LoQ	1,50	0,010
Metalaxyl	mg/kg	0,025		0,010
Metalaxyl and Metalaxyl-M (Sum of Isomers))	mg/kg	0,025	3,00	0,010
Pendimethalin	mg/kg	0,029	0,05	0,010
Penthiopyrad	mg/kg	2,3	0,01	0,010
Tebuconazole	mg/kg	<LoQ	0,50	0,010
Scope of testing:		Dithiocarbamate		
Examination method:		ASU,L00.00-49/2; (Headspace-GC-FPD) 2002-12		
Parameters	Unit	Result	MRL	RL
Dithiocarbamate	mg/kg	0,89	5,00	0,01

RL = Reporting limit

MRL = Maximum residue level

1) Overview of the examined pesticides after the Combi-method (PV-SA-085), state 10.02.2020

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
Boscalid	<LoQ	50,00		50	1	0,00000	n.e.	-	0
Fluopicolid	<LoQ	1,50		50	1	0,00000	0,1800	-	0
Metalaxyl	0,025			50	1	0,00007	0,5000	0,0	0
Metalaxyl and Metalaxyl-M (Sum of Isomeres))	0,025	3,00	0,8	50	1	0,00007	n.e.	-	1
Pendimethalin	0,029	0,05	58,0	50	1	0,00008	0,3000	0,0	1
Penthiopyrad	2,3	0,01	23.000,0	50	1	0,00646	0,7500	0,9	1
Tebuconazole	<LoQ	0,50		50	1	0,00000	0,0300	-	0
Dithiocarbamate	0,89	5,00	17,8	50	1	0,00250	n.e.	-	1

Calculation model: EFSA PRIMo rev3

Calculation model: (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 Penthiopyrad at a concentration of 2,3 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 or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC

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