

Test Report

Sample number: 22-080586 0001

Berlin, 06.01.2023

Client: Blumental Bayern GmbH
Brendelstr. 10A
90453 Nürnberg

Date of Entrance: 27.12.2022

Sample name: Safflower

Quantity unit: approx. 80 g

Quantity: 1

Batch number: CSFF-22-01

Packaging: bag with window, label

Sampling: by client, sample receipt by delivery service

Temperature of receipt: + 10,8 °C

Begin of examination: 27.12.2022

End of examination: 06.01.2023

Pesticides combi method

Parameters	Result	U	Reference	Unit	RL	Method
Pesticides / GC	not detected	-		-		M1
Pesticides / LC	.	-		-		M1
Chlorpyrifos	< RL	-	0,01 {MRL}	mg/kg	0.010	M1
Cypermethrin	0.010	± 0.005		mg/kg	0.010	M1
Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	0.010	± 0.005	0,10 {MRL}	mg/kg		M1
Malathion	0.050	± 0.025		mg/kg	0.010	M1
Malathion (sum of malathion and malaoxon expressed as malathion)	0.050	± 0.025	0,02 {MRL}	mg/kg		M1
Phoxim	< RL	-	0,10 {MRL}	mg/kg	0.010	M1
Piperonylbutoxid	< RL	-	0,50 {HM}	mg/kg	0.010	M1

Overview of the analyzed pesticides according to combi-method (PV-SA-085), state 01.11.2022

For evaluation of the pesticides the maximum levels of safflower (EU-Code-No.: 0631030-029) were used.

Decision rule: In case of an unsecured exceeding or falling below the target value used for conformity assessment, the expanded measurement uncertainty is taken into account. This is based on the analytical measurement uncertainty or, in the case of microbiology, on the standard uncertainty (according to ISO 19036) and is multiplied by the coverage factor $k=2$ (corresponding to a confidence level of about 95 %). The measurement uncertainty of the sampling is reported separately if required. For microbiological methods, the combined standard uncertainty is assumed to be equal to the laboratory reproducibility standard deviation.

Methods

Abbreviation	Method	Revision Date
M1	ASU L 00.00-115 (LC-MS/MS, GC-MS/MS, GC-NCI)	2018-10

List of abbreviations

Abbreviation	Explanation
{HM}	Maximum level
{MRL}	Maximum residue level
RL	Reporting Limit
U	Measurement uncertainty

Assessment

The examined sample contains Malathion (sum of malathion and malaoxon expressed as malathion) at a concentration of 0.050 mg/kg, which exceeds the maximum residue level of 0.02 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].



André Pasemann

MSc. Ernährungswissenschaftler/ MSc. Nutritional Scientist
Kundenberatung / Customer Consultant

* Recommendation of Codex Committee in order to assess the measurement uncertainty by pesticide residues analysis (Document N° SANTE /12682/2019 from 01.01.2020).

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

Attachment

