

# Prüfbericht / Report

## PB\_BLS250425-SF922-0001-03

Auftrags Nr. / Order No.: **SF922**

Proben Nr. / Sample No.: **BLS250425-SF922-0001-03**

Probenbezeichnung Kunde / Client sample ID:

**Org Moringa Powder , Lot: MPCHS1025**

Probeneingang / Sample arrival: **Apr 25, 2025**

Verpackung / Packaging: **Plastic bag**

Auftragsdatum / Date of Order: **Apr 25, 2025**

Probenmenge / Sample size: **430.0 g**

Prüfbeginn / Start of analysis: **Apr 25, 2025**

Probentyp / Sample type: **Moringa powder**

Prüfende / End of analysis: **Apr 28, 2025**

## Untersuchungsergebnisse / Results

Parameter	Methoden/Methods	Einheit/ Unit	Ergebnis/ Result	MU	RW/GL	WW/WL
<b>Microbiology</b>						
presumptive Bacillus cereus	ASU L 01.00-72 mod. f. LM+FM: 2011-01, PEMBA / 37°C / 18-24h	cfu/g	< 10	-	1,000	10,000
E. coli	ASU L 00.00-132/2: 2021-03, TBX / 44°C / 18-24h	cfu/g	< 10	-	1,000	10,000
Yeast	ASU L 01.00-37: 1991-12, DRBC / 25°C / 72-96h	cfu/g	100	32 - 320		
Moulds	ASU L 01.00-37: 1991-12, DRBC / 25°C / 72-96h	cfu/g	900	280 - 2800	100,000	
Clostridium perfringens	ASU L 00.00-57, ASU L 0105: 2006-12/2013-04, SC / 37°C / 20h	cfu/g	< 10	-	1,000	10,000
Spores of sulphite reducing clostridia	ISO 15213: 2003, TS / pasteurization / 75°C / 20min / 37°C / 48h	cfu/g	< 10	-		
Salmonella in 25g	ASU L 00.00-20 mod.; confirmation by PCR: 2021-07	pos/neg	negative	-		negative

MU: Methodenabhängige erweiterte Messunsicherheit / Method-dependent expanded measurement uncertainty

RW/GL: Richtwert / Guidance level

WW/WL: Warnwert / Warning level

ein \* hinter dem Parameter kennzeichnet ein nicht akkreditiertes Verfahren / a \* after the parameter indicates a non-accredited method

**Prüfbericht / Report:** PB\_BLS250425-SF922-0001-03

**Auftragsnummer / Order No.:** SF922

**Proben Nr. / Sample No.:** BLS250425-SF922-0001-03

**Probenbezeichnung Kunde / Client sample ID:**

**Org Moringa Powder , Lot: MPCHS1025**

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Apr 28, 2025

### **Beurteilung / Appraisal:**

#### **Microbiology inconspicuous according to DGHM:**

The results of the microbiological analyses of the sample are in accordance with the specifications provided by the DGHM (Deutsche Gesellschaft für Hygiene und Mikrobiologie / German Society for Hygiene and Microbiology) for dried herbs and spices.



i. A. Dr. Martin Albat  
(Kundenbetreuung / Customer Service)

# Prüfbericht / Report

**PB\_BLS250425-SF922-0001-03-01**

Auftrags Nr. / Order No.: **SF922**

Proben Nr. / Sample No.: **BLS250425-SF922-0001-03-01**

Probenbezeichnung Kunde / Client sample ID:

**Org Moringa Powder , Lot: MPCHS1025**

Probeneingang / Sample arrival: **Apr 25, 2025**

Verpackung / Packaging: **Plastic bag**

Auftragsdatum / Date of Order: **Apr 25, 2025**

Probenmenge / Sample size: **430.0 g**

Prüfbeginn / Start of analysis: **Apr 25, 2025**

Probentyp / Sample type: **Moringa powder**

Prüfende / End of analysis: **Apr 28, 2025**

## Untersuchungsergebnisse / Results

Parameter	Methoden/Methods	Einheit/ Unit	Ergebnis/ Result	MU	RW/GL	WW/WL
<b>Microbiology</b>						
Aerobic plate count	ASU L 00.00-88/2: 2023-04, PCA / 30°C / 72h	cfu/g	90,000	28000 - 280000		

MU: Methodenabhängige erweiterte Messunsicherheit / Method-dependent expanded measurement uncertainty

RW/GL: Richtwert / Guidance level

WW/WL: Warnwert / Warning level

ein \* hinter dem Parameter kennzeichnet ein nicht akkreditiertes Verfahren / a \* after the parameter indicates a non-accredited method

**Prüfbericht / Report:** PB\_BLS250425-SF922-0001-03-01

**Auftragsnummer / Order No.:** SF922

**Proben Nr. / Sample No.:** BLS250425-SF922-0001-03-01

**Probenbezeichnung Kunde / Client sample ID:**

**Org Moringa Powder , Lot: MPCHS1025**

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Apr 28, 2025

## **Beurteilung / Appraisal:**

### **Microbiology:**

Regarding the microbiological parameter aerobic mesophilic plate count, the DGHM (Deutsche Gesellschaft für Hygiene und Mikrobiologie / German Society for Hygiene and Microbiology) defined no guidance or warning values for this matrix.



i. A. Dr. Martin Albat  
(Kundenbetreuung / Customer Service)

# Prüfbericht / Report

## PB\_BLS250425-SF922-0001-04

Auftrags Nr. / Order No.: **SF922**

Proben Nr. / Sample No.: **BLS250425-SF922-0001-04**

Probenbezeichnung Kunde / Client sample ID:

**Org Moringa Powder , Lot: MPCHS1025**

Probeneingang / Sample arrival: **Apr 25, 2025**

Verpackung / Packaging: **Plastic bag**

Auftragsdatum / Date of Order: **Apr 25, 2025**

Probenmenge / Sample size: **430.0 g**

Prüfbeginn / Start of analysis: **Apr 25, 2025**

Probentyp / Sample type: **Moringa powder**

Prüfende / End of analysis: **Apr 29, 2025**

## Untersuchungsergebnisse / Results

Parameter	Methoden/Methods	Einheit/ Unit	Ergebnis/ Result	MU	NWG/LOD	HG/ML
<b>Mycotoxins</b> Size of ground sample: 430.00 g						
Aflatoxin B1	PLA-SOP0311: 2012-02, HPLC	ppb (µg/kg)	< 0.08	-	0.08	2.00
Aflatoxin B2	PLA-SOP0311: 2012-02, HPLC	ppb (µg/kg)	< 0.08	-	0.08	
Aflatoxin G1	PLA-SOP0311: 2012-02, HPLC	ppb (µg/kg)	< 0.08	-	0.08	
Aflatoxin G2	PLA-SOP0311: 2012-02, HPLC	ppb (µg/kg)	< 0.08	-	0.08	
Aflatoxin (B1,B2,G1,G2)	PLA-SOP0311: 2012-02, HPLC	ppb (µg/kg)	not calculable	-		4.00

NWG / LOD: Nachweisgrenze / Limit of detection

MU: Methodenabhängige erweiterte Messunsicherheit / Method-dependent expanded measurement uncertainty

HG / ML: Höchstgehalt / Maximum level

ein \* hinter dem Parameter kennzeichnet ein nicht akkreditiertes Verfahren / a \* after the parameter indicates a non-accredited method

**Prüfbericht / Report:** PB\_BLS250425-SF922-0001-04

**Auftragsnummer / Order No.:** SF922

**Proben Nr. / Sample No.:** BLS250425-SF922-0001-04

**Probenbezeichnung Kunde / Client sample ID:**

**Org Moringa Powder , Lot: MPCHS1025**

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Apr 29, 2025

### **Beurteilung / Appraisal:**

#### **Mycotoxins in accordance with Regulation (EU) 2023/915:**

No levels of the analyzed mycotoxins above the reporting limit were detected in the present sample.

The sample does comply with the requirements of Regulation (EU) 2023/915 on maximum levels for certain contaminants in foodstuffs in the current version.



i. A. Dr. Martin Albat  
(Kundenbetreuung / Customer Service)

# Prüfbericht / Report

**PB\_BLS250425-SF922-0001-05**

Auftrags Nr. / Order No.: **SF922**

Proben Nr. / Sample No.: **BLS250425-SF922-0001-05**

Probenbezeichnung Kunde / Client sample ID:

**Org Moringa Powder , Lot: MPCHS1025**

Probeneingang / Sample arrival: **Apr 25, 2025** Verpackung / Packaging: **Plastic bag**  
Auftragsdatum / Date of Order: **Apr 25, 2025** Probenmenge / Sample size: **430.0 g**  
Prüfbeginn / Start of analysis: **Apr 25, 2025** Probentyp / Sample type: **Moringa powder**  
Prüfende / End of analysis: **Apr 29, 2025**

## Untersuchungsergebnisse / Results

Parameter	Methoden/Methods	Einheit/ Unit	Ergebnis/ Result	MU	Ergebnis (OS)/ Result (OS)	BrG/RL	RHG/ MRL
<b>Pesticides</b>	Size of ground sample: 430.00 g					EU pesticide code: 0632030	
Multispectrum P-Premium	ASU L 00.00-115: 2018-10, LC-MS/MS, GC-MS/MS	mg/kg	< RL	-	< RL	0.010	

### Bemerkungen / Remarks:

Multimethod analyses performed according to list P-Premium V4 122024.

n.n. / n.d.: nicht nachgewiesen / not detected

Ergebnis (OS) / Result (OS): Messwert bezogen auf das unverarbeitete Produkt (Originalsubstanz = OS) / Measured value refers to the unprocessed product (original substance = OS)

MU: Methodenabhängige erweiterte Messunsicherheit / Method-dependent expanded measurement uncertainty

BrG / RL: Berichtsgrenze / Reporting limit

RHG / MRL: Rückstandshöchstgehalt / Maximum residue level

EU pesticide code: EU-Pestizid Code der Matrix, auf die sich der RHG bezieht / EU pesticide code of the matrix to which the MRL refers  
ein \* hinter dem Parameter kennzeichnet ein nicht akkreditiertes Verfahren / a \* after the parameter indicates a non-accredited method

**Beurteilung / Appraisal:**

**Pesticides in accordance with the European Regulation (EC) No. 396/2005:**

In the present sample, no residues of the examined pesticides were detected above the reporting limit.

The sample complies with the requirements of Regulation (EC) No. 396/2005 on maximum residue levels of pesticides in its current version.

**Assessment of the findings according to BNN orientation value in the current version**

Orientation value for individual substances met ( $\leq 0.010$  mg/kg\*\*)

**YES**

Orientation value for individual substances met with regard to the expanded measurement uncertainty  $\pm 50\%$

**YES**

Maximum count of individual substances met (max. two individual substances  $\geq 0.010$  mg/kg\*\* WITHOUT regard to the expanded measurement uncertainty of  $\pm 50\%$ )

**YES**

\*\*\*

Whether the requirements of Regulation (EC) No. 2018/848 on organic production have been complied with cannot be determined by the laboratory and, in case of doubt, is to be examined by the competent inspection bodies. Active substances approved in organic farming according to the Implementing Regulation (EC) No. 2021/1165 Annex II are excluded from the evaluation according to the BNN orientation value.



i. A. Dr. Martin Albat  
(Kundenbetreuung / Customer Service)

# Prüfbericht / Report

## PB\_BLS250425-SF922-0001-01

Auftrags Nr. / Order No.: **SF922**

Proben Nr. / Sample No.: **BLS250425-SF922-0001-01**

Probenbezeichnung Kunde / Client sample ID:

**Org Moringa Powder , Lot: MPCHS1025**

Probeneingang / Sample arrival: **Apr 25, 2025**

Verpackung / Packaging: **Plastic bag**

Auftragsdatum / Date of Order: **Apr 25, 2025**

Probenmenge / Sample size: **430.0 g**

Prüfbeginn / Start of analysis: **Apr 25, 2025**

Probentyp / Sample type: **Moringa powder**

Prüfende / End of analysis: **Apr 30, 2025**

### Untersuchungsergebnisse / Results

Parameter	Methoden/Methods	Einheit/ Unit	Ergebnis/ Result	MU	NWG/LOD	BG/LOQ	HG/ML
<b>External parameters</b>	Size of ground sample: 100.00 g						
Ethylene oxide	PV-SA-399; (GC-MS): 2023-08	mg/kg	not detectable	-		0.010	
2-chloroethanol	PV-SA-399; (GC-MS): 2023-08	mg/kg	not detectable	-		0.010	
Ethylene oxide (sum of ethylene oxide and 2-chloroethanol, expressed as ethylene oxide)	PV-SA-399; (GC-MS): 2023-08	mg/kg	not detectable	-			0.10

External parameters: These test methods are performed by an external laboratory as a subcontract. The laboratory performing the test is accredited by DAkkS for the test method used, unless the parameter is marked with an \*.

MU: Methodenabhängige erweiterte Messunsicherheit / Method-dependent expanded measurement uncertainty

NWG / LOD: Nachweisgrenze / Limit of detection

BG / LOQ: Bestimmungsgrenze / Limit of quantification

HG / ML: Höchstgehalt / Maximum level

n.n. / n.d.: nicht nachgewiesen / not detected

neg: negativ (kleiner NWG) / negative (below LOD)

pos: positiv (gleich oder größer NWG) / positive (equal or above LOD)

ein \* hinter dem Parameter kennzeichnet ein nicht akkreditiertes Verfahren / a \* after the parameter indicates a non-accredited method

**Beurteilung / Appraisal:**

**Ethylene oxide in accordance with Regulation (EC) 396/2005:**

In the present sample, no residues of ethylene oxide (sum of ethylene oxide and 2-chloroethanol expressed as ethylene oxide) above the limit of quantification were detected.

In this regard, the sample complies with the requirements of Regulation (EC) No 396/2005 on maximum residue levels of pesticides in its current version.

Assessment of the findings according to BNN orientation value in the current version	
Orientation value for individual substances met ( $\leq 0.010$ mg/kg**)	YES
Orientation value for individual substances met with regard to the expanded measurement uncertainty $\pm 50\%$	YES
Maximum count of individual substances met (max. two individual substances $\geq 0.010$ mg/kg** WITHOUT regard to the expanded measurement uncertainty of $\pm 50\%$ )	YES

\*\*\*

Whether the requirements of Regulation (EC) No. 2018/848 on organic production have been complied with cannot be determined by the laboratory and, in case of doubt, is to be examined by the competent inspection bodies. Active substances approved in organic farming according to the Implementing Regulation (EC) No. 2021/1165 Annex II are excluded from the evaluation according to the BNN orientation value.



i. A. Dr. Martin Albat  
(Kundenbetreuung / Customer Service)

## 1. General product information

Sales description:	Moringa powder
Freshness ratio/ concentration factor:	100 %
Country of origin:	Egypt, India, Tanzania, further possible
Ingredients (descending in %):	100 % ORGANIC Moringa powder

## 2. Description / production process

Moringa plant (*Moringa Oleifera*) belongs to the family of the Bennuss family and is subordinated to the genus Moringa. The Moringa plant is cultivated around the equator belt. Moringa powder is made from the leaves of the plant, which are typically greenish in color.



The product can be consumed raw or processed, with or without other food.



## 3. Sensory characteristics

Appearance:	Fine, greenish powder, differences possible
Consistency:	Powder
Odor/Flavor:	Characteristic, fresh, without foreign odor/flavor

#### 4. Chemical and physical characteristics

Parameters	Min.	Max.	unit
Moisture content		8,0	%
Purity	99,95		%
Foreign materials of plant origin/ foreign seeds		0,05	%
Additions	-	-	-

#### 5. Resiudes and contaminations

Parameters	Requirements
<b>Pesticide residues:</b>	BNN orientation value: 0.01mg/kg for single substances, max. 2 substances detectable.
<b>Contamination and chemical residues:</b>	Pursuant to the EU Regulation setting maximum levels for certain contaminants in foodstuffs, as amended.

#### 6. Microbiological Characteristics

Parameters	Limit	Unit
Total aerobic plate count	100.000	KbE/g
Yeasts	5.000	KbE/g
Molds	5.000	KbE/g
Escherichia Coli	absent	KbE/g
Salmonellae	absent	/25 g

#### 7. Nutritional value

	Unit	per 100 g
<b>Energy</b>	Kcal / kJ	307 / 1280
<b>Fat</b>	g	4,4
- saturated fatty acids	g	2,3
<b>Carbohydrates</b>	g	19,4
- Sugar	g	19,0
<b>Fiber</b>	g	30,8
<b>Protein</b>	g	27,1
<b>Sodium</b>	g	3,9

*Origin of the data: the data was calculated / the data was analyzed*

## 8. Packaging and shelflife

Packaging:	25 kg bags
Shelflife:	24 months (closed in the original package)
Storage conditions:	cool (< 20 °C), dry (< 65 % rel. humidity) and protected from light

## 9. Certificate

Please note that not all our suppliers are certified according to BRC or IFS standards, but have a certified quality or risk management system.

## 10. GMO Status

The product does not need to be labelled in accordance with Regulations (EC) Nos 1829/2003 and 1830/2003 on genetically modified food and feed.

## 11. Allergens

Marking obligation allergens in Annex IIIa to directive 2000/13/EC	In product	Cross-contamination in the product:
	Yes: + No: -	Yes: + No: -
Gluten-cereals (means wheat, rye, barley, oats, spelt, kamut or their hybridized strains) and products thereof.	-	-
Crustaceans and products thereof.	-	-
Eggs and products thereof.	-	-
Fishes and products thereof.	-	-
Peanuts and products thereof.	-	-
Soybeans and products thereof.	-	-
Milk and products thereof (including Milch und daraus gewonnene Erzeugnisse (einschließlich lactose)).	-	-
Nuts, d. H. Almonds ( <i>Amygdalus communis</i> L.), hazelnuts ( <i>Corylus avellana</i> ), walnuts ( <i>Juglans regia</i> ), Cashew ( <i>Anacardium occidentale</i> ), pecans ( <i>Carya illinoensis</i> (Wangenh.) K. Koch), Brazil nuts ( <i>Bertholletia excelsa</i> ), pistachios ( <i>Pistacia vera</i> ), Macadamia nuts and Queensland nuts ( <i>Macadamia ternifolia</i> ) and products thereof	-	-

Changed on:	29.04.2021	Sofia Schilling	Reason for change: nutritional value
Checked on:	29.04.2021	Günther Braun	
Released on:	29.04.2021	Günther Braun	

Celery and products thereof.	-	-
Mustard and products thereof.	-	-
Sesame seeds and products thereof.	-	-
Sulfur dioxide and sulphites in concentrations higher than 10 mg / kg or 10 mg / l, expressed as SO <sub>2</sub> .	-	-
Lupin and products thereof.	-	-
Molluscs and products thereof.	-	-

Allergens of the LeDa bzw. ALBA-List	In product	Cross-contamination in the product:
	Yes: + No: -	Yes: + No: -
<b>Legal allergens</b>		
Wheat	-	-
Rye	-	-
Barley	-	-
Oats	-	-
Spelt	-	-
Kamut	-	-
Gluten	-	-
Crustaceans	-	-
Egg	-	-
Fishes	-	-
Peanuts	-	-
Soy	-	-
Milk	-	-
Almonds	-	-
Hazelnuts	-	-
Walnuts	-	-
Cashews	-	-
Pecans	-	-
Brazil nuts	-	-
Pistachios Queensland	-	-
Macadamia / nuts	-	-
Nuts (Nuts)	-	-
Celery	-	-
Mustard	-	-
Sesame seeds	-	-
Sulfur dioxide and sulphites (E220 - E228) in concentrations of more than 10 mg/kg or 10 mg/ l, expressed as SO <sub>2</sub>	-	-


Allergens of the LeDa bzw. ALBA-List	In product	Cross-contamination in the product:
	Yes: + No: -	Yes: + No: -
Lupines	-	-
Molluscs	-	-
Additional allergens		
Lactose	-	-
Cocoa	-	-
Glutamate (E620 - E625)	-	-
Hen	-	-
Coriander	-	-
Corn	-	-
Legumes	-	-
Beef	-	-
Pork meat	-	-
Carrots	-	-

## 12. Legal Status

The product corresponds to the **European food regulations** according to the currently valid version, as well as the current **EU regulation on organic farming**.

The product consists neither of genetically modified organisms nor does it contain such organisms or is manufactured from them. Therefore there is no labelling obligation. There is **no intentionally technically produced nanomaterial contained** in the product and packaging, so that these do not have to be labelled. The product has not been exposed to artificially ionising radiation.

This specification contains guideline values. Fluctuations in appearance, composition, smell and taste are due to the natural origin of the ingredients. The above specification is based on information provided by our suppliers. We recommend to test the suitability of our products by own tests.