

RED B.V.  
Einsteinstraat 37

3316 GG Dordrecht

## Certificate of Analysis

No. 2024037570

Date of certificate: 14-11-2024  
Instruction received on 7-11-2024  
Sample received 8-11-2024  
Start of laboratory activities 8-11-2024  
End of laboratory activities 14-11-2024  
Product Lecithin powder  
Packing 1 Plastic bottle  
Sample quantity 612 ml  
Sample temperature Ambient  
Sample sealed No



### Customer sample information

Batch number BA001350  
Sample number M20243602  
Product Soy lecithin

### Test Results:

Expanded MU<sup>1</sup>

2024037570.00

Package



### Dioxins

WHO PCDD/F-TEQ excl. LOQ 2005	0,087 pg/g fat	± 0,014
WHO PCDD/F-TEQ incl. LOQ 2005	0,240 pg/g fat	± 0,038
WHO PCDD/F + DL-PCBs TEQ excl. LOQ 2005	0,087 pg/g fat	± 0,015
WHO PCDD/F + DL-PCBs TEQ incl. LOQ 2005	0,353 pg/g fat	± 0,060

### Polychlorinated dibenzodioxins

2,3,7,8-TCDD (1746-01-6)	Less than 0,050 pg/g fat
1,2,3,7,8-PeCDD (40321-76-4)	Less than 0,050 pg/g fat
1,2,3,4,7,8-HxCDD (39227-28-6)	Less than 0,050 pg/g fat
1,2,3,6,7,8-HxCDD (57653-85-7)	0,160 pg/g fat ± 0,011



accredited method (accreditation number L440)

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All analysis are performed at Jan van Galenstraat 51.

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1,2,3,7,8,9-HxCDD (19408-74-3)	Less than 0,050 pg/g fat	
1,2,3,4,6,7,8-HpCDD (35822-46-9)	6,240 pg/g fat	± 2,122
OCDD (3268-87-9)	29,060 pg/g fat	± 3,778

*Polychlorinated dibenzofurans*

2,3,7,8-TCDF (51207-31-9)	Less than 0,050 pg/g fat	
1,2,3,7,8-PeCDF (57117-41-6)	Less than 0,050 pg/g fat	
2,3,4,7,8-PeCDF (57117-31-4)	Less than 0,050 pg/g fat	
1,2,3,4,7,8-HxCDF (70648-26-9)	Less than 0,050 pg/g fat	
1,2,3,6,7,8-HxCDF (57117-44-9)	Less than 0,050 pg/g fat	
2,3,4,6,7,8-HxCDF (60851-34-5)	Less than 0,050 pg/g fat	
1,2,3,7,8,9-HxCDF (72918-21-9)	Less than 0,050 pg/g fat	
1,2,3,4,6,7,8-HpCDF (67562-39-4)	Less than 0,050 pg/g fat	
1,2,3,4,7,8,9-HpCDF (55673-89-7)	Less than 0,050 pg/g fat	
OCDF (39001-02-0)	Less than 0,200 pg/g fat	



**Dioxin like PCB's**

PCB 77 (80333-65-9)	Less than 2,000 pg/g fat	
PCB 81 (70362-50-4)	Less than 2,000 pg/g fat	
PCB 126 (57465-28-8)	Less than 0,500 pg/g fat	
PCB 169 (56-25-7)	Less than 2,000 pg/g fat	
PCB 105 (35899-54-8)	Less than 10,000 pg/g fat	
PCB 114 (74472-37-0)	Less than 10,000 pg/g fat	
PCB 118 (31508-00-6)	Less than 10,000 pg/g fat	
PCB 123 (65510-44-3)	Less than 10,000 pg/g fat	
PCB 156 (38380-08-4)	Less than 10,000 pg/g fat	
PCB 157 (69782-90-7)	Less than 10,000 pg/g fat	
PCB 167 (52663-72-6)	Less than 10,000 pg/g fat	
PCB 189 (39635-31-9)	Less than 10,000 pg/g fat	
WHO-PCB-TEQ (WHO 2005) excl. LOQ	0,000 pg/g fat	
WHO-PCB-TEQ (WHO 2005) incl. LOQ	0,113 pg/g fat	± 0,023



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## Non dioxin like PCB's

PCB 28 (7012-37-5)	Less than 0,100 ng/g fat
PCB 52 (35693-99-3)	Less than 0,100 ng/g fat
PCB 101 (37680-73-2)	Less than 0,100 ng/g fat
PCB 138 (35065-28-2)	Less than 0,100 ng/g fat
PCB 153 (8020-83-5)	Less than 0,100 ng/g fat
PCB 180 (35065-29-3)	Less than 0,100 ng/g fat
PCB SUM (PCB 28, 52, 101, 138, 153, 180) incl.LOQ	Less than 0,600 ng/g fat

## Package

<b>Arsenic (As) (7440-38-2)</b>	0,02 mg/kg
<b>Cadmium (Cd) (7440-43-9)</b>	Less than 0,005 mg/kg
<b>Lead (Pb) (7439-92-1)</b>	0,03 mg/kg
<b>Mercury (Hg) (7439-97-6)</b>	Less than 0,02 mg/kg

## Package

<b>Pesticide 01: Pesticides Flexible scope Organic analyses (multiresidue methode GC-MS/MS, LC-MS/MS positive mode) NL/10a/b/c (in accordance with EN 15662). Acc. to the NofaLab flexscope version 11 - date 2024-08-01</b>	Not detected
<b>Pesticide 02: Pesticides Flexible scope Organic analyses (multiresidue methode GC-MS/MS, LC-MS/MS positive mode) NL/10a/b/c (in accordance with EN 15662). Acc. to the NofaLab flexscope version 11 - date 2024-08-01</b>	Not detected

## Mycotoxin

<b>Ochratoxin A (303-47-9)</b>	4,0 µg/kg	±	1,8
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## Polycyclic Aromatic Hydrocarbons

### PAH's, (Polycyclic Aromatic Hydrocarbons)

<b>Benzo(a)anthracene (56-55-3)</b>	Less than 0,5 µg/kg
<b>Chrysene (218-01-9)</b>	Less than 0,5 µg/kg
<b>Benzo(b)fluoranthene (205-99-2)</b>	Less than 0,5 µg/kg

accredited method (accreditation number L440)

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 Benzo(a)pyrene (50-32-8 )	Less than 0,5 µg/kg
 Sum of PAH-4	Not detected µg/kg
Notification,	Analysis performed on fat content

 : accredited method (accreditation number L440)



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## ANNEX

### Sample Determination

**Method** EN 15662  
**Analysis** Pesticides 01,Pesticides 02  
**Norm** In accordance with EN 15662  
**WI** NL/10a/b/c  
**Device** LC-MS/MS and GC-MS/MS

**Method** **Dioxins & Dioxin-like PCB's**  
**Analysis** Dioxin like PCB's,Dioxins  
**Norm** In accordance with Directive (EU) nr. 2017/644 (for Food)  
**WI** NL/22b  
**Device** GC-HR/MS

**Method** **Determination of the content of PolycyclicAromaticHydrocarbons (PAH's)**  
**Analysis** PAH's, (Polycyclic Aromatic Hydrocarbons)  
**Norm** In accordance with ISO 22959  
**WI** NL/03  
**Device** DACC-HPLC Fluorescence

**Method** **Determination of metals, sulfur and phosphorus**  
**Analysis** Lead (Pb),Mercury (Hg),Cadmium (Cd),Arsenic (As)  
**Norm** In-house method  
**WI** NL/26b  
**Device** ICP-MS/MS

**Method** **Determination of the content of mycotoxins**  
**Analysis** Ochratoxin A  
**Norm** In-house method  
**WI** NL/13  
**Device** LC-MS/MS


**Method** **Non dioxin-like PCB's**  
**Analysis** Non dioxin like PCB's  
**Norm** In-house method  
**WI** NL/22b  
**Device** GC-HR/MS

### Sample preparation

**Method** **Dioxins sample preparation (Food)**  
**Norm** In-house method  
**WI** NL/22a

**Method** **Pressure digestion**  
**Norm** In accordance with NEN 13805

**Method** **Dioxins sample preparation (Food)**  
**Norm** In-house method  
**WI** NL/22a

 : accredited method (accreditation number L440)

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## ANNEX


### Sample Determination

Method	Determination of the content of PolycyclicAromaticHydrocarbons (PAH's) in extracted fat
Analysis	PAH's, (Polycyclic Aromatic Hydrocarbons)
Norm	In accordance with ISO 22959
WI	NL/03

### Sample preparation

NofaLab B.V.  
F. Cobussen  
Managing Director



 : accredited method (accreditation number L440)

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