

RED B.V. Einsteinstraat 37

3316 GG Dordrecht

Certificate of Analysis

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 **Ambient** Sample temperature Sample sealed No

Customer sample information

Batch number BA001350 M20243602 Sample number Product Soy lecithin

No. 2024037570



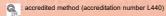
Test Results: Expanded MU¹

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



¹ The expanded measurement uncertainty is an estimated range of values that your measurement result could confidently (95%) be within.

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All analysis are performed at Jan van Galenstraat 51.

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Page 1 of 6

Results reported are expressed in product unless clearly stated otherwise



		Date:	14-11-2024	
	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
P	olychlorinated 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	

Certificate No.

2024037570 Expanded MU1

Less than 0,050 pg/g fat

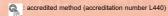
Less than 0,200 pg/g fat

Dioxin like PCB's

1,2,3,4,7,8,9-HpCDF (55673-89-7)

OCDF (39001-02-0)

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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Page 2 of 6



Certificate No. 2024037570 Expanded MU1

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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

G.	Arsenic (As) (7440-38-2)	0,02 mg/kg
Q.	Cadmium (Cd) (7440-43-9)	Less than 0,005 mg/kg
Q.	Lead (Pb) (7439-92-1)	0,03 mg/kg
	Leau (FD) (1439-92-1)	0,03 Hg/kg
Q.	Mercury (Hg) (7439-97-6)	Less than 0,02 mg/kg

Package

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

Not detected

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

Not detected

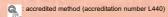
Mycotoxin

Ochratoxin A (303-47-9)	4,0 μg/kg	+	18
Comatoxiii A (000 +1 0)	τ,ο μg/ng		1,0

Polycyclic Aromatic Hydrocarbons

PAH's, (Polycyclic Aromatic Hydrocarbons)

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



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Page 3 of 6



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

: accredited method (accreditation number L440)

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Page 4 of 6



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ANNEX

Sample Determination

Sample preparation

Method FN 15662

Pesticides 01. Pesticides 02 **Analysis** In accordance with EN 15662 Norm

WI NL/10a/b/c

Device LC-MS/MS and GC-MS/MS

Dioxins & Dioxin-like PCB's Method Method Dioxins sample preparation (Food)

Dioxin like PCB's, Dioxins **Analysis** Norm In-house method

In accordance with Directive (EU) nr. WI NL/22a Norm 2017/644 (for Food)

WI NL/22b GC-HR/MS Device

Method Determination of the content of

PolycyclicAromaticHydrocarbons

(PAH's)

Analysis PAH's, (Polycyclic Aromatic

Hydrocarbons)

Norm In accordance with ISO 22959

WI NL/03

DACC-HPLC Fluorescence Device

Method Determination of metals, sulfur and Method **Pressure digestion**

phosphorus

Analysis Lead (Pb), Mercury (Hg), Cadmium Norm In accordance with NEN 13805

(Cd), Arsenic (As)

In-house method Norm

WI NL/26b ICP-MS/MS Device

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 Method Dioxins sample preparation (Food)

Non dioxin like PCB's In-house method **Analysis** Norm

In-house method NL/22a Norm

WI NL/22b Device GC-HR/MS

: accredited method (accreditation number L440)

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Page 5 of 6



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ANNEX

Sample Determination

Sample preparation

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

NofaLab B.V. F. Cobussen Managing Director

: accredited method (accreditation number L440)

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Page 6 of 6