

RED B.V. Einsteinstraat 37

3316 GG Dordrecht

Certificate of Analysis

Date of certificate: 10-1-2025

Instruction received on 7-1-2025 Sample received 7-1-2025 Start of laboratory activities 7-1-2025 End of laboratory activities 10-1-2025 Product Rapeseed lecithin

Packing 1 Plastic bottle Sample quantity 933 ml **Ambient** Sample temperature Sample sealed No

Customer sample information

Batch number BA001374 Rapeseed lecithin Product M20243801 Sample number

WHO PODD/E-TEO aval 1 00 2005

No. 2025000533



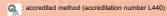
Test Results: Expanded MU¹

2025000533.00

Package

Dioxins

	WHO PCDD/F-TEQ excl. LOQ 2005	0,001 pg/g lat	± 0,000
	WHO PCDD/F-TEQ incl. LOQ 2005	0,158 pg/g fat	± 0,025
	WHO PCDD/F + DL-PCBs TEQ excl. LOQ 2005	0,001 pg/g fat	± 0,000
	WHO PCDD/F + DL-PCBs TEQ incl. LOQ 2005	0,272 pg/g fat	± 0,046
P	olychlorinated 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)	Less than 0,050 pg/g fat	



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All analysis are performed at Jan van Galenstraat 51.

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Results reported are expressed in product unless clearly stated otherwise

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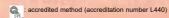
± 0 000



		Certificate No. Date:	2025000533 10-1-2025	Expanded MU¹
	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)		Less than 0,050 pg/g fat	
	OCDD (3268-87-9)		Less than 0,200 pg/g fat	
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)		0,070 pg/g fat	± 0,014
	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

DCD 77 (00222 CE 0)	Loop than 2 000 ng/g fot	
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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Certificate No. 2025000533 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)	Less than 0,015 mg/kg
G.	Cadmium (Cd) (7440-43-9)	0,013 mg/kg
G.	Lead (Pb) (7439-92-1)	Less than 0,02 mg/kg
G	Mercury (Hg) (7439-97-6)	Less than 0,02 mg/kg

Immunology

Soy protein Content

Soy protein content Quantification Less than 2,5 mg/kg	
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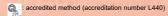
Mycotoxin

2000 that i pg/kg	Q.	Ochratoxin A (303-47-9)	Less than 1 μg/kg
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Polycyclic Aromatic Hydrocarbons

PAH's, (Polycyclic Aromatic Hydrocarbons)

Q.	Benzo(a)anthracene (56-55-3)	2,2 μg/kg
9	Chrysene (218-01-9)	3,6 µg/kg
Q.	Benzo(b)fluoranthene (205-99-2)	2,1 μg/kg
Q.	Benzo(a)pyrene (50-32-8)	2,4 μg/kg
G.	Sum of PAH-4	10,2 μg/kg
	Notification,	Analysis performed on fat content



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GMP023912

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ANNEX

WI

Sample Determination

Method Dioxins & Dioxin-like PCB's Dioxin like PCB's.Dioxins **Analysis**

In accordance with Directive (EU) nr. Norm

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)

In accordance with ISO 22959 Norm

NL/03 WI

Device **DACC-HPLC Fluorescence**

Determination of metals, sulfur and Method

phosphorus

Analysis Lead (Pb), Mercury (Hg), Cadmium

(Cd), Arsenic (As)

Norm In-house method

NL/26b ICP-MS/MS Device

Method Determination of the content of

mycotoxins

Analysis Ochratoxin A In-house method Norm

WI **NL/13** Device LC-MS/MS

Method Non dioxin-like PCB's Non dioxin like PCB's **Analysis**

In-house method Norm WI NL/22b Device GC-HR/MS

Method **ELISA Soy Protein Content**

Soy protein Content **Analysis**

In accordance with Ridascreen® fast Norm

Soya ref R7102

WI NL/A004

Device **ELISA Technique**

Sample preparation

Method Dioxins sample preparation (Food)

In-house method Norm

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

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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