

RED B.V.  
Einsteinstraat 37

3316 GG Dordrecht

## Certificate of Analysis

No. 2025019947

Date of certificate: 11-6-2025

Instruction received on	4-6-2025
Sample received	4-6-2025
Start of laboratory activities	4-6-2025
End of laboratory activities	11-6-2025
Product	Soyabean lecithin
Packing	1 Plastic bottle
Sample quantity	548 g
Sample temperature	Ambient
Sample sealed	No



### Customer sample information


Batch number	BA001680
Sample number	M20252206
Product	Soybean lecithin

### Test Results:


Expanded MU<sup>1</sup>


2025019947.00

#### Package

 <b>Arsenic (As) (7440-38-2)</b>	Less than 0,015 mg/kg
 <b>Cadmium (Cd) (7440-43-9)</b>	Less than 0,005 mg/kg
 <b>Lead (Pb) (7439-92-1)</b>	0,02 mg/kg
 <b>Mercury (Hg) (7439-97-6)</b>	Less than 0,02 mg/kg

#### General

 <b>Acetone insoluble</b>	64,2 %
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 accredited method (accreditation number L440)

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All analysis are performed at Jan van Galenstraat 51.

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 **Acid value** 24,3 mg KOH/g

 **Color Gardner, dilution 10 (w/w) with toluene** 11 -

## Peroxide value


Peroxide value 0,8 meq O<sub>2</sub>/kg

Result based on sample mass of 2 grams


 **Toluene insoluble matter** Less than 0,01 %


**Viscosity at 25°C** 3318 cP


## Metals

 **Iron (Fe) (7439-89-6)** 23,00 mg/kg


## Microbiology

 **Coliforms** Less than 10 cfu/g

 **Real time PCR Salmonella spp.** Not detected per 25 gram

 **Total plate count 30°C** micro-organisms present but less than 40 cfu/g


## Yeasts & Moulds

 **Yeasts & moulds** Less than 10 cfu/g


Yeasts Less than 10 cfu/g

Moulds Less than 10 cfu/g


## Mycotoxin

 **Ochratoxin A (303-47-9)** 1,3 µg/kg ± 0,6

## Other analysis

 **Moisture** 0,36 % (w/w)

## Polycyclic Aromatic Hydrocarbons

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## PAH's, (Polycyclic Aromatic Hydrocarbons)

 Benzo(a)anthracene (56-55-3 )	7,6 µg/kg
 Chrysene (218-01-9)	7,8 µg/kg
 Benzo(b)fluoranthene (205-99-2 )	5,7 µg/kg
 Benzo(a)pyrene (50-32-8 )	4,3 µg/kg
 Sum of PAH-4	25,4 µg/kg
Notification,	Analysis performed on fat content

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## ANNEX

### Sample Determination


**Method** Salmonella Real time PCR, detection  
**Analysis** Real time PCR Salmonella per 25 gram  
**Norm** Equivalent to ISO 6579-1, Real time PCR, (MicroVal 2014-LR43) Surefast Salmonella-ONE  
**WI** NL/D005 §6.4 / § 6.6  
**Device** Real time PCR

### Sample preparation

**Method** Yeasts & moulds (pourplate)  
**Analysis** Yeasts & Moulds enumeration, colony count technique (pourplate) (ISO 21527-2)  
**Norm** In accordance with ISO 21527-2  
**WI** NL/M012  
**Device** Colony count technique, 120-168 h. at 25°C

**Method** Total plate count (TPC) 30°C (pourplate)  
**Analysis** Total plate count 30°C enumeration, colony count technique (pourplate)  
**Norm** In accordance with ISO 4833-1  
**WI** NL/M009  
**Device** Colony count technique, 72 h. at 30°C

**Method** Determination of toluene insoluble matter  
**Analysis** Toluene insoluble matter  
**Norm** Equivalent to ISO 28198  
**WI** NL/51  
**Device** Filtration

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## ANNEX

### Sample Determination

**Method** Determination of moisture content (Karl Fischer)  
**Analysis** Moisture  
**Norm** Equivalent to AOCS Ja 2b-87  
**WI** NL/34d  
**Device** Titrator

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


**Method** Determination of color Gardner, in clear dilution 10 (w/w) with toluene  
**Analysis** Color Gardner, dilution 10 (w/w) with toluene  
**Norm** Equivalent to AOCS Ja 9-87  
**WI** NL/52  
**Device** Spectrocolorimeter

**Method** Determination of peroxide value  
**Analysis** Peroxide value  
**Norm** Equivalent to AOCS Ja 8-87  
**WI** NL/40  
**Device** Titrator

**Method** Determination of acetone insoluble  
**Analysis** Acetone insoluble  
**Norm** Equivalent to AOCS Ja 4-46  
**WI** NL/49

### Sample preparation

**Method** Dilution 1:10 (w/w) with toluene  
**Norm** In-house method  
**WI** NL/52

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## ANNEX

### Sample Determination

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

Method	Determination of acid value
Analysis	Acid value
Norm	In accordance with AOCS Ja 6-55
WI	NL/38
Device	Titration


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

Method	Coliforms (pourplate)
Analysis	Coliforms enumeration, colony count technique (pourplate)
Norm	In accordance with ISO 4832
WI	NL/M008
Device	Colony count technique, 24 h. at 37°C

Method	Determination of viscosity by brookfield
Analysis	Viscosity at 25°C
Norm	Equivalent to AOCS Ja 10-87
Device	Brookfield Viscosity

### Sample preparation

Method	Pressure digestion
Norm	In accordance with NEN 13805

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## ANNEX


### Sample Determination

### Sample preparation

Method	Determination of the content of Polycyclic Aromatic Hydrocarbons (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



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