

RED B.V.  
Einsteinstraat 37

3316 GG Dordrecht

## Certificate of Analysis

No. 2023015737

Date of certificate: 9-5-2023  
Instruction received on 3-5-2023  
Sample received 3-5-2023  
Start of laboratory activities 3-5-2023  
End of laboratory activities 9-5-2023  
Product Lecithin blend  
Packing 1 Plastic bottle  
Sample quantity 1 ml  
Sample temperature Ambient  
Sample sealed No



### Customer sample information

Sample number M20231607  
Product REDLEC™ JC-M  
Sample date 2-5-2023  
Batch number BA000910

### Test Results:

Expanded MU<sup>1</sup>


2023015737.00

#### Package

	<b>Arsenic (As) (7440-38-2)</b>	0,012 mg/kg
	<b>Cadmium (Cd) (7440-43-9)</b>	Less than 0,005 mg/kg
	<b>Lead (Pb) (7439-92-1)</b>	0,025 mg/kg
	<b>Mercury (Hg) (7439-97-6)</b>	Less than 0,005 mg/kg

#### General

##### Aceton insoluble

 accredited method (accreditation number L440)

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All analysis are performed at Jan van Galenstraat 51.

All our services are subjected to general conditions applicable as deposited at Chamber of Commerce of Rotterdam, KVK-no.:24361065.



NofaLab B.V.  
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Nofalab is certified by:




Nofalab is accredited by the council of the federation:




Results reported are expressed in product unless clearly stated otherwise.

GMP023912



Certificate No. **2023015737** Expanded MU<sup>1</sup>  
Date: 9-5-2023

	Aceton Insoluble	30,6 %
	Remark	Result is the average of four determinations
	Acid value	11,2 mg KOH/g
	Color Gardner, dilution 10 (w/w) with toluene	7 -
	Peroxide value	3,3 meq O2/kg
	Toluene insoluble matter	0,24 %
	Viscosity at 25°C	Less than 300 cP

## Metals

	Iron (Fe) (7439-89-6)	24,41 mg/kg
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## Microbiology


	Enterobacteriaceae	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

## Other analysis

	Moisture	0,36 % (w/w)
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## ANNEX

### Sample Determination

<b>Method</b>	<b>Salmonella Real time PCR, detection</b>
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
<b>Method</b>	<b>Yeasts &amp; moulds (pourplate)</b>
Analysis	Yeasts & Moulds enumeration, colony count technique (pourplate) (ISO 21527-2)
Norm	In accordance with ISO 21527-2
WI	NL/M12
Device	Colony count technique, 120-168 h. at 25°C
<b>Method</b>	<b>Total plate count (TPC) 30°C (pourplate)</b>
Analysis	Total plate count 30°C enumeration, colony count technique (pourplate)
Norm	In accordance with ISO 4833-1
WI	NL/M09
Device	Colony count technique, 72 h. at 30°C
<b>Method</b>	<b>Determination of toluene insoluble matter</b>
Analysis	Toluene insoluble matter
Norm	Equivalent to ISO 28198
WI	NL/51
Device	Filtration
<b>Method</b>	<b>Determination of metals, sulfur and phosphorus</b>
Analysis	Arsenic (As), Cadmium (Cd), Lead (Pb), Mercury (Hg), Iron (Fe)
Norm	In-house method
WI	NL/26b
Device	ICP-MS/MS
<b>Method</b>	<b>Determination of moisture content (Karl Fischer)</b>
Analysis	Moisture
Norm	Equivalent to AOCS Ja 2b-87
WI	NL/34d
Device	Titration

### Sample preparation

<b>Method</b>	<b>Pressure digestion</b>
Norm	In accordance with NEN 13805

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## ANNEX

### Sample Determination

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

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

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


**Method** Enterobacteriaceae enumeration (pourplate)  
**Analysis** Enterobacteriaceae enumeration, colony count technique (pourplate)  
**Norm** In accordance with ISO 21528-2  
**WI** NL/M14  
**Device** Colony count technique, 24 h. at 37°C

**Method** Determination duplo  
**Analysis** Acetone insoluble  
**Norm** In accordance with ISO 5725-6  
**Device** Calculated

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

### Sample preparation

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

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CERTIFICATE OF ANALYSIS

NofaLab B.V.  
F. Cobussen  
Managing Director



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