

RED B.V.
Einsteinstraat 37

3316 GG Dordrecht

Certificate of Analysis

No. 2025000912_A

Date of certificate: 15-1-2025
Instruction received on 9-1-2025
Sample received 10-1-2025
Start of laboratory activities 10-1-2025
End of laboratory activities 15-1-2025
Product Lecithin blend
Packing 1 Plastic bottle
Sample quantity 525 g
Sample temperature Ambient
Sample sealed No









Customer sample information


Batch number BA001478
Sample number M20250102
Product Lecithin blend

Test Results:

Expanded MU¹

General

	Aceton insoluble	31,5 %
	Acid value	13,0 mg KOH/g
	Color Gardner, dilution 10 (w/w) with toluene	9
	Hexane insoluble matter	0,010 %
	Peroxide value	
	Peroxide value	1,8 meq O2/kg
	Result based on sample mass of	2 grams
	Toluene insoluble matter	0,03 %

 accredited method (accreditation number L440)

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.

Our general terms & conditions are available on our website www.nofalab.nl.



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Certificate No. 2025000912_A Expanded MU'
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Viscosity at 25°C 124 cP

Metals

 Lead (Pb) (7439-92-1)	Less than 0,02 mg/kg
 Mercury (Hg) (7439-97-6)	Less than 0,02 mg/kg


Microbiology

 Enterobacteriaceae	Less than 10 cfu/g
 Real time PCR Salmonella spp.	Not detected per 25 gram
 Total plate count 30°C	less than 10 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	0,41 % (w/w)
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Polycyclic Aromatic Hydrocarbons

PAH's, (Polycyclic Aromatic Hydrocarbons)

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

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

Sample preparation

 : accredited method (accreditation number L440)

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ANNEX

Sample Determination

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 acetone insoluble

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

Method Determination of metals, sulfur and phosphorus

Analysis Lead (Pb), Mercury (Hg)
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 Titrator

Method Determination of hexane insoluble matter

Analysis Hexane insoluble matter
Norm In accordance with AOCS Ja 3-87
WI NL/50
Device Filtration


Sample preparation

Method Dilution 1:10 (w/w) with toluene

Norm In-house method
WI NL/52

Method Pressure digestion

Norm In accordance with NEN 13805

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ANNEX

Sample Determination

Method	Enterobacteriaceae enumeration (pourplate)
Analysis	Enterobacteriaceae enumeration, colony count technique (pourplate)
Norm	In accordance with ISO 21528-2
WI	NL/M014
Device	Colony count technique, 24 h. at 37°C

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

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

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

Sample preparation

Remarks:

Reporting re-analysis

NofaLab B.V.
F. Cobussen
Managing Director




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