

RED B.V.
Einsteinstraat 37

3316 GG Dordrecht

Certificate of Analysis

No. 2022035677_A

Date of certificate: 3-11-2022

Instruction received on 24-10-2022
Sample received 24-10-2022
Start of laboratory activities 24-10-2022
End of laboratory activities 3-11-2022
Product Soyabean lecithin
Packing 1 Plastic jar
Sample quantity 1142 g
Sample temperature Ambient
Sample sealed No



Customer sample information

Sample date 19-10-2022
Batch number BA000739
Product REDLEC™ Fluid 150 Premium LVM
Sample number M20224209

Test Results:

Expanded MU¹

General



Acetone insoluble

Acetone Insoluble	60,0 %
Hexane insoluble matter	0,030 %



Acid value

30,6 mg KOH/g



Color Gardner, dilution 10 (w/w) with toluene

10

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.

All reported results are approved by the responsible labmanager.

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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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Certificate No. 2022035677_A Expanded MU¹
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 Peroxide value	0,4 meq O2/kg
 Toluene insoluble matter	Less than 0,01 %
Viscosity at 25°C	2716 cP


Metals

 Lead (Pb) (7439-92-1)	Less than 0,005 mg/kg
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Microbiology


 Escherichia coli	Less than 10 cfu/g
Listeria monocytogenes detection	Not detected per 25 gram
 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	0,33 % (w/w)
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ANNEX

Sample Determination

Method	Determination of metals, sulfur and phosphorus
Analysis	Lead (Pb)
Norm	In-house method
WI	NL/26b
Device	ICP-MS/MS
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/M12
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/M09
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

Method	Pressure digestion
Norm	In accordance with NEN 13805

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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	Escherichia coli (pourplate)
Analysis	Escherichia coli enumeration of β -glucuronidase positive E.coli at 44°C
Norm	In accordance with ISO 16649-2
WI	NL/M13
Device	Colony count technique, 24 h. at 44°C

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


Method	Determination of hexane insoluble matter
Analysis	Acetone insoluble
Norm	In accordance with AOCS Ja 3-87
WI	NL/50
Device	Filtration

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

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

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	Listeria monocytogenes Real time PCR, detection
Analysis	Listeria monocytogenes detection per 25 gram
Norm	Equivalent to ISO 11290-1
Device	Agilent Aria MX

Sample preparation

Remarks:

Added analysis

NofaLab B.V.
F. Cobussen
Managing Director



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