WESSLING
part of ALS Limited

WESSLING GmbH
Johann-Krane-Weg 42 · 48149 Münster
www.wessling.de

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Date: 12.05.2025

Certificate of Analysis

Sample:	**Nedcann HS 22/01**		Page 1 of 5
Batch/Lot-No.:	FP0195	**Stability Time Point:**	--
Sample Amount:	20 x 10 g	**Container:**	PE-Bag

Report Date	12.05.2025	**Date of Receipt:**	23.04.2025	**Order No.:**	**CMS-02498-25**
Date of Order:	22.04.2025	**Start of Testing:**	28.04.2025	**Report-No.:**	**CMS25-007272-1**
Delivery No.:	VA00302164	**End of Testing:**	12.05.2025	**Sample-No.:**	**25-057380-06**

Parameter	Method	Specification	Result
Chemical analysis	according to Ph. Eur. <07/2024:3028>*1		
Identity A	macroscopic, Ph. Eur.	complies	complies
Identity B	Ph. Eur. 2.8.23	complies	complies
Identity C	Ph. Eur. 2.8.25	complies	complies
Foreign Matter	Ph. Eur. 2.8.2	≤ 2 %; leaves ≤ 1 cm; no seeds	complies
Loss on drying	Ph. Eur. 2.2.32	≤ 12 %	7.8 %
Total Cannabinol*2	Ph. Eur. 2.2.29	≤ 1.0 % (w/w)	0.12 % (w/w)
Total Δ^9-Tetrahydrocannabinol*2	Ph. Eur. 2.2.29	for information % (w/w)	25.51 % (w/w)
Total Cannabidiol*2	Ph. Eur. 2.2.29, DAB	< 1 % (w/w)	0.07 % (w/w)

*1 executive Site: Pharmaanalytik Münster, assay results relative to the dry matter
*2 expressed as Cannabinol, Δ^9-Tetrahydrocannabinol and Cannabidiol

Parameter	Method	Specification	Result
Microbiological evaluation			
TAMC/g	Ph. Eur. 2.6.12, Ph. Eur. 5.1.8 C*	≤ 10^5 CFU/g**	< 100 CFU/g
TYMC/g	Ph. Eur. 2.6.12, Ph. Eur. 5.1.8 C*	≤ 10^4 CFU/g**	< 100 CFU/g
Escherichia coli/g	Ph. Eur. 2.6.31, Ph. Eur. 5.1.8 C*	absent/1 g	absent/1 g
Salmonella/25 g	Ph. Eur. 2.6.31, Ph. Eur. 5.1.8 C*	absent/25 g	absent/25 g
Bile-tolerant gramnegative bacteria/g	Ph. Eur. 2.6.31, Ph. Eur. 5.1.8 C*	≤ 10^4 CFU/g	< 10 CFU/g

* Executive site: Pharmaanalytik Münster
** Maximum acceptable count 5 * 10^x CFU/g

Parameter	Method	Specification in µg/kg	Result in µg/kg
Aflatoxins	VA45110, Ph. Eur. 2.8.18*1		
Aflatoxin B1	LC-MS/MS	max. 2	n.n.*2
Aflatoxin B2	LC-MS/MS	--	n.n.*2
Aflatoxin G1	LC-MS/MS	--	n.n.*2
Aflatoxin G2	LC-MS/MS	--	n.n.*2
Total amount of Aflatoxins	LC-MS/MS	max. 4	n.n.*2

*1 executive Site: Cooperation lab
*2 n.n = below limit of quantification (LoQ); LoQ Aflatoxin B1, B2, G1: 0.5 µg/kg; LoQ Aflatoxin G2: 1.0 µg/kg

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Geschäftsführer:
Sven Polenz
Thomas Symura
HRB 1953 AG Steinfurt

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Parameter	Method	Specification in mg/kg	Result in mg/kg
Heavy Metals	Ph. Eur. <07/2024:3028>, Ph. Eur. 2.4.27*		
Lead	ICP-MS	max. 0.5	< 0.1
Cadmium	ICP-MS	max. 0.3	< 0.05
Mercury	ICP-MS	max. 0.1	< 0.05
Arsenic	ICP-MS	max. 0.2	< 0.1

*executive site: Cooperation lab

Parameter in mg/kg	Method	Limit value	Limit of Quantification	Result
Residue of Pesticides	VA 15000, Ph. Eur. 2.8.13*			
Acephate	LC-MS/MS	0.1	0.05	n.n.
Alachlor	LC-MS/MS	0.05	0.05	n.n.
Sum of Aldrin und Dieldrin	GC-MS/MS	0.05	0.05	n.n.
Azinphos-ethyl	LC-MS/MS	0.1	0.05	n.n.
Azinphos-methyl	LC-MS/MS	1	0.5	n.n.
Bromophos-ethyl	GC-MS/MS	0.05	0.05	n.n.
Bromophos-methyl	GC-MS/MS	0.05	0.02	n.n.
Brompropylat	GC-MS/MS	3	1	n.n.
Chinalphos (=Quinalphos)	LC-MS/MS	0.05	0.02	n.n.
Chlordane (Sum of cis-, trans- and Oxy-)	GC-MS/MS	0.05	0.05 / 0.02 / 0.1	n.n.
Chlorfenvinphos	GC-MS/MS	0.5	0.2	n.n.
Chlorpyriphos-ethyl	GC-MS/MS	0.2	0.1	n.n.
Chlorpyriphos-methyl	GC-MS/MS	0.1	0.05	n.n.
Chlorthal-dimethyl	GC-MS/MS	0.01	0.05	n.n.
Cyfluthrin (Summe)	GC-MS/MS	0.1	0.25	n.n.
λ-Cyhalothrin	GC-MS/MS	1	0.5	n.n.
Cypermethrin and Isomere (Sum)	GC-MS/MS	1	0.5	n.n.
DDT (Sum of o.p´-DDE, p.p'-DDE, o.p'-DDT, p.p'-DDT, o.p'-TDE and p.p´-TDE)	GC-MS/MS	1	0.1	n.n.
Deltamethrin	GC-MS/MS	0.5	0.25	n.n.
Diazinon	GC-MS/MS	0.5	0.25	n.n.
Dichlofluanid	LC-MS/MS	0.1	0.05	n.n.
Dichlorvos	LC-MS/MS	1	0.5	n.n.
Dicofol	GC-MS/MS	0.5	0.2	n.n.
Dimethoat und Omethoat (Sum)	LC-MS/MS	0.1	0.05	n.n.
Endosulfan (Sum of Isomers and Endosulfansulfat)	GC-MS/MS	3	0.5	n.n.
Endrin	GC-MS/MS	0.05	0.05	n.n.
Ethion	LC-MS/MS	2	1	n.n.
Etrimphos	LC-MS/MS	0.05	0.02	n.n.
Fenchlorophos (Sum of Fenchlorphos and Fenchlorphos-oxon)	GC-MS/MS	0.1	0.05	n.n.
Fenitrothion	GC-MS/MS	0.5	0.25	n.n.
Fenpropathrin	LC-MS/MS	0.03	0.02	n.n.
Fensulfothion (Sum of Fensulfothion, Fensulfothion-oxon, Fensulfothion-oxon-sulfon	LC-MS/MS	0.05	0.02	n.n.

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Geschäftsführer:
Sven Polenz
Martin Stener
Thomas Symura
HRB 1953 AG Steinfurt

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Parameter in mg/kg	Method	Limit value	Limit of Quantification	Result
and Fensulfothion-sulfon)				
Fenthion (Sum of Fenthion, Fenthion-oxon, Fenthion-oxon-sulfon, Fenthion-oxon-sulfoxid, Fenthion-sulfon and Fenthion-sulfoxid)	LC-MS/MS	0.05	0.02	n.n.
Fenvalerat	GC-MS/MS	1.5	1	n.n.
Flucythrinat	LC-MS/MS	0.05	0.25	n.n.
Fluvalinat-tau	LC-MS/MS	0.05	0.2	n.n.
Fonofos	GC-MS/MS	0.05	0.02	n.n.
Heptachlor (Sum of Heptachlor, cis-Heptachlorepoxid and trans-Heptachloepoxid)	GC-MS/MS	0.05	0.05	n.n.
Hexachlorbenzol	GC-MS/MS	0.1	0.05	n.n.
Hexachlorcyclohexan (Sum of a-, b-, d- and e- Isomers)	GC-MS/MS	0.3	0.05	n.n.
Lindan (g-Hexachlorcyclohexan)	GC-MS/MS	0.6	0.05	n.n.
Malathion and Malaoxon (Sum)	LC-MS/MS	1	0.1	n.n.
Mecarbam	LC-MS/MS	0.05	0.01	n.n.
Methacriphos	GC-MS/MS	0.05	0.02	n.n.
Methamidophos	LC-MS/MS	0.05	0.02	n.n.
Methidathion	LC-MS/MS	0.2	0.1	n.n.
Methoxychlor	GC-MS/MS	0.05	1	n.n.
Mirex	GC-MS/MS	0.01	0.5	n.n.
Monocrotophos	LC-MS/MS	0.1	0.05	n.n.
Parathion-ethyl and Paraoxon-ethyl (Sum)	LC-MS/MS	0.5	0.25	n.n.
Parathion-methyl und Paraoxon-methyl (Sum)	LC-MS/MS	0.2	0.2	n.n.
Pendimethalin	LC-MS/MS	0.5	0.1	n.n.
Pentachloranisol	GC-MS/MS	0.01	0.05	n.n.
Permethrin and Isomere (Sum)	LC-MS/MS	1	0.5	n.n.
Phosalon	LC-MS/MS	0.1	0.05	n.n.
Phosmet	LC-MS/MS	0.05	0.02	n.n.
Piperonylbutoxid	LC-MS/MS	3	0.1	n.n.
Pirimiphos-ethyl	LC-MS/MS	0.05	0.02	n.n.
Pirimiphos-methyl (Sum of Pirimiphos-methyl and N-Desethyl-pirimiphos-methyl)	LC-MS/MS	4	1	n.n.
Procymidon	GC-MS/MS	0.1	0.1	n.n.
Profenophos	LC-MS/MS	0.1	0.05	n.n.
Prothiophos	LC-MS/MS	0.05	0.05	n.n.
Pyrethrum (Sum of Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I and Pyrethrin II)	LC-MS/MS	3	1	n.n.
Quintozen (Sum of Quintozen, Pentachloranilin and Methylpentachlorophenylsulfid)	GC-MS/MS	1	0.2	n.n.
S-421 (Octachlorodipropyl ether or N-Desethyl-pirimiphos-methyl)	GC-MS/MS	0.02	0.02	n.n.
Tecnazen	GC-MS/MS	0.05	0.02	n.n.
Vinclozolin	GC-MS/MS	0.4	0.2	n.n.
>>>>*further risk based pesticides*				n.n.

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Acetamiprid	LC-MS/MS	8.4**	1	n.n.
Aldicarb	LC-MS/MS	0.6**	0.3	n.n.
Azadirachtin	LC-MS/MS	12**	1	n.n
Azoxystrobin	LC-MS/MS	24**	1	n.n.
Bifenazat	LC-MS/MS	1.2**	1	n.n.
Bifenthrin	LC-MS/MS	1.8**	1	n.n.
Boscalid	LC-MS/MS	4.8**	1	n.n.
Carbaryl	LC-MS/MS	0.9**	0.5	n.n.
Carbofuran (incl. Carbosulfan)	LC-MS/MS	0.24**	0.1	n.n.
Chlorantraniliprol (Rynaxapyr)	LC-MS/MS	187.2**	0.1	n.n.
Chlorfenapyr	GC-MS/MS	1.8**	1	n.n.
Coumaphos	LC-MS/MS	0.06**	0.05	n.n.
Daminozid	LC-MS/MS	54**	1	n.n.
Dimethomorph	LC-MS/MS	6**	1	n.n.
Ethoprophos	LC-MS/MS	0.048**	0.02	n.n.
Etofenprox	LC-MS/MS	3.6**	1	n.n.
Etoxazol	LC-MS/MS	4.8**	1	n.n.
Fenhexamid	LC-MS/MS	24**	1	n.n.
Fenoxycarb	LC-MS/MS	6.36**	1	n.n.
Fipronil	LC-MS/MS	0.024**	0.01	n.n.
Flonicamid	LC-MS/MS	3**	1	n.n.
Fludioxonil	LC-MS/MS	44.4**	1	n.n.
Hexythiazox	LC-MS/MS	3.6**	1	n.n.
Imazalil	LC-MS/MS	3**	1	n.n.
Imidacloprid	LC-MS/MS	7.2**	1	n.n.
Kresoxim-methyl	LC-MS/MS	48**	1	n.n.
Metalaxyl	LC-MS/MS	9.6**	1	n.n.
Methiocarb (Mercaptodimethur)	LC-MS/MS	1.56**	1	n.n.
Methomyl	LC-MS/MS	0.3**	0.1	n.n.
Mevinphos	LC-MS/MS	0.096**	0.05	n.n.
MGK 264 (N-Octyl-bicyclohepten-dicarboximid)	LC-MS/MS	8.4**	0.2	n.n.
Myclobutanil	LC-MS/MS	3**	1	n.n.
Naled	GC-MS/MS	0.01***	0.5	n.n.
Oxamyl	LC-MS/MS	0.12**	0.05	n.n.
Paclobutrazol	LC-MS/MS	2.64**	1	n.n.
Prallethrin	LC-MS/MS	2.4**	0.2	n.n.
Propiconazol	LC-MS/MS	4.8**	1	n.n.
Propoxur	LC-MS/MS	2.4**	1	n.n.
Pyridaben	LC-MS/MS	1.2**	0.5	n.n.
Spinetoram (J+L)	LC-MS/MS	3**	1	n.n.
Spinosad (Spinosyn A+D)	LC-MS/MS	2.88**	1	n.n.
Spiromesifen	LC-MS/MS	3.6**	1	n.n.
Spirotetramat	LC-MS/MS	6**	1	n.n.
Spiroxamin	LC-MS/MS	3**	1	n.n.
Tebuconazol	LC-MS/MS	3.6**	1	n.n.

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Parameter in mg/kg	Method	Limit value	Limit of Quantification	Result
Thiacloprid	LC-MS/MS	1.2**	1	n.n.
Thiametoxam	LC-MS/MS	3.12**	1	n.n.
Trifloxystrobin	LC-MS/MS	4.8**	1	n.n.

n.n. = below limit of quantification
*executive site: cooperation lab
** risik based pesticide, limit value according to Ph.Eur. calculated via ADI (assumed daily uptake: 5g)
*** risk based pesticide, ADI not determinable, limit value: 0,01 mg/kg (pesticide not permitted 396/2005)
Due to technical limitations, the LOQ of the pesticides chlorothal-dimethyl, cyfluthrin, flycytrinate and tau-fluvainate is above the Pharm. Eur. limit but below the toxicological limit (calculated assuming a daily dose of 5 g). Furthermore, the LOQ of the pesticides methoxychlor, mirex, chlordane (sum of cis-, trans- and oxy-) and pentachloroanisole is above the established limit specified by Pharm. Eur. The pesticide tetradifone is not measurable due to the complexity of the matrix (see INC No. 210482).

Parameter	Method	max. permitted amount in mg/kg	LOQ in mg/kg	Result in mg/kg**
Dithiocarbamate	VA15010, Ph. Eur. 2.8.13*			
Dithiocarbamate as CS2	Headspace-GC/MS	2.0	0.5	n.n.

*executive site: cooperation lab
**LOQ = Limit of Quantification, n.n = below LOQ

Evaluation: Regarding the tested parameters the sample complies with acceptance criteria submitted by customer.

Mona Lippelt
Project Manager
M. Sc. Biotechnology

Kim Bachmann
Head of Laboratory
M. Sc. Chemistry

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