

TEST REPORT NO 563086/23/GDY

Client SFD SPÓŁKA AKCYJNA GŁOGOWSKA 41 45315 OPOLE		Sample (according to declaration of Client) Sample description: ALLNUTRITION ADAPTO MACA 90 kap Batch: AN230606
Sample reception date:	14.10.2023	Sample status: no objections Sample received from the Client
Start of analysis	16.10.2023	
End of analysis	27.10.2023	
Test report date	27.10.2023	

Test Method	Unit	Result
* Pyrrolizidine alkaloids ^{2) 5)} PB-498 ed. I of 23.05.2022		
Echimidine	µg/kg	< 5,0 (5,0 ± 1,8)
Echimidine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Echinatine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Europine	µg/kg	< 5,0 (5,0 ± 1,8)
Europine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Heliosupine	µg/kg	< 5,0 (5,0 ± 1,8)
Heliosupine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Heliotrine	µg/kg	< 5,0 (5,0 ± 1,8)
Heliotrine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Intermedine	µg/kg	< 5,0 (5,0 ± 1,8)
Intermedine-N-oxide (sum of intermedine-N-oxide and indicine-N-oxide as intermedine-N-oxide)	µg/kg	< 5,0 (5,0 ± 1,8)
Lasiocarpine	µg/kg	< 5,0 (5,0 ± 1,8)
Lasiocarpine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Lycopsamine (sum of lycopsamine, indicine and echinatine as lycopsamine)	µg/kg	< 5,0 (5,0 ± 1,8)
Lycopamine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Retrorsine (sum of retrorsine and usaramine as retrorsine)	µg/kg	< 5,0 (5,0 ± 1,8)
Retrorsine-N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Rinderine	µg/kg	< 5,0 (5,0 ± 1,8)
Rinderine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Senecionine	µg/kg	< 5,0 (5,0 ± 1,8)
Senecionine-N-oxide (sum of senecionine-N-oxide and integerrimine-N-oxide as senecionine-N-oxide)	µg/kg	< 5,0 (5,0 ± 1,8)
Seneciphylline (sum of seneciphylline and spartioidine as seneciphylline)	µg/kg	< 5,0 (5,0 ± 1,8)
Seneciphylline-N-oxide (sum of seneciphylline-N-oxide and spartioidine N-oxide as seneciphylline-N-oxide)	µg/kg	< 5,0 (5,0 ± 1,8)

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Senecivernine (sum of senecivernine and integerrimine as senecivernine)	µg/kg	< 5,0 (5,0 ± 1,8)
Senecivernine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Senkirikine	µg/kg	< 5,0 (5,0 ± 1,8)
Usaramine N-oxide	µg/kg	< 5,0 (5,0 ± 1,8)
Sum of pyrrolizidine alkaloids	µg/kg	below quantification limit
* Pesticides - SCR1 - ed. VI of 08.06.2020 ^{1) 2) 4)} LMBG-00.00-34:1999 (DFG S19) except section E9		
Analysed pesticides	mg/kg	below quantification limit
* # Ethylene oxide ²⁾ PB-18 ed. I of 09.05.2023		
Ethylene oxide (sum of ethylene oxide and 2-chloro-ethanol expressed as ethylene oxide)	mg/kg	< 0,01 (0,01±0,01)
* Polycyclic aromatic hydrocarbons / PAHs ^{2) 3)} PB-117/HPLC ed. VI of 20.01.2019		
Benzo(a)pyrene	µg/kg	< 1,0 (1,0 ± 0,2)
Sum of PAHs (benzo(a)pyrene, benz(a)anthracene, chrysene, benzo(b)fluoranthene)	µg/kg	below quantification limit
* Content of elements ²⁾ PN-EN 15763:2010		
Lead (Pb)	mg/kg	0,051
Cadmium (Cd)	mg/kg	0,062
Mercury (Hg)	mg/kg	< 0,0010 (0,0010 ± 0,0002)

- 1) The SCR1 ed. VI of 08.06.2020 list includes the determined compounds with limits of quantification.
- 2) The lower limit of the measuring range of the accredited method, which is also the limit of quantification set by the Laboratory.
- 3) Limit of quantification for benzo(a)pyrene, benz(a)anthracene, chrysene, benzo(b)fluoranthene: 1,0 (1,0 ± 0,2) µg/kg.
- 4) The measurement uncertainty is ± 50%, according to SANTE/11312/2021.
- 5) Limit of quantification 5,0 (5,0 ± 1,8) µg/kg.

Test: Ethylene oxide was performed in laboratory with an accreditation number AB 1537

Authorized by:

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The test report bears the certified electronic seal of J.S. Hamilton Poland Sp. z o.o.

Laboratory address:

Chwaszczyńska 180, 81-571 Gdynia

The results refer only to the samples received. When a measurement uncertainty is given, it is an expanded uncertainty estimated for a coverage factor k=2 at 95% confidence level and is not including sampling uncertainty, unless otherwise stated. When the conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019, unless otherwise reported. If the "result" column of the accredited method contains a record: "<" or ">", it means, that it is the test outcome directly related to the lower or upper limit of the measuring range of the accredited method, whereas the given expanded measurement uncertainty relates only to the lower or upper limit of the measuring range of the accredited method respectively. In such a case, the Laboratory presents the opinion and interpretation in the "statement of conformity" column, which is based on the obtained test outcome. This test report may not be copied in part without the prior written permission of J.S. Hamilton Poland Sp. z o.o. The responsibility of J.S. Hamilton Poland Sp. z o.o. is limited solely to the data issued in its original. J.S. Hamilton Poland Sp. z o.o. does not permit the use of the PCA accreditation symbol AB 079 by customers, subcontractors, external service providers and other third parties. For further information please refer to the PCA document - DA-02. The service confirmed by this report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on www.hamilton.com.pl.

* Test method accredited

Test performed by external provider

Pesticides - SCR1 - ed. VI of 08.06.2020

No.	Compound	Range [mg/kg]	No.	Compound	Range [mg/kg]	No.	Compound	Range [mg/kg]
1	Aldrin	0,005-0,5	33	Endosulfan alpha isomer	0,01-50	65	Methacrifos	0,01-0,5
2	Aldrin and dieldrin combined expressed as dieldrin	0,005-0,5	34	Endosulfan beta isomer	0,01-50	66	Methamidophos	0,01-10
3	Azinphos-ethyl	0,01-0,5	35	Endosulfan sulphate	0,01-50	67	Methidathion	0,01-1
4	Azinphos-methyl	0,01-2	36	Endrin	0,005-1	68	Methoxychlor	0,005-1
5	Bifenthrin (sum of isomers)	0,01-20	37	Ethion	0,005-5	69	Metolachlor	0,01-1
6	Bromophos (-methyl)	0,005-4	38	Etrimphos	0,005-1	70	Metribuzin	0,005-1
7	Bromophos-ethyl	0,01-0,5	39	Fenchlorphos	0,005-0,5	71	Mevinphos (sum of isomers)	0,01-1
8	Captan	0,01-5	40	Fenitrothion	0,005-4	72	Mirex	0,005-1
9	Carbophenothion	0,01-1	41	Fenson	0,005-1	73	Myclobutanil (sum of isomers)	0,01-5
10	Chlordane (sum of cis- and trans-chlordane)	0,005-0,5	42	Fensulfothion	0,01-1	74	Nuarimol	0,01-1
11	Chlordane, cis	0,005-0,5	43	Fenthion	0,01-2	75	Omethoate	0,01-1
12	Chlordane, trans	0,005-0,5	44	Fenvalerate (sum of isomers)	0,01-0,5	76	Other pesticides	-
13	Chlorfenson	0,01-0,5	45	Fluvalinate-tau	0,01-1	77	Oxychlordane (Octachlorepoxyde)	0,005-0,5
14	Chlorfenvinphos	0,01-2	46	Folpet	0,01-20	78	Paraoxon-methyl	0,01-1
15	Chlorothalonil	0,005-20	47	Fonophos	0,005-0,5	79	Parathion	0,01-1
16	Chlorpyrifos	0,005-5	48	HCH alpha isomer	0,005-1	80	Parathion-methyl	0,005-1
17	Chlorpyrifos-methyl	0,005-2	49	HCH beta isomer	0,005-1	81	Parathion-methyl (sum of parathion-methyl and paraoxon-methyl expressed as parathion-methyl)	0,005-1
18	Cypermethrin (sum of isomers)	0,02-50	50	HCH delta isomer	0,005-1	82	Penconazole (sum of isomers)	0,01-1
19	DDD-o,p'	0,005-2	51	Heptachlor	0,005-1	83	Pentachloroaniline	0,005-1
20	DDD-p,p'	0,005-2	52	Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0,005-1	84	Permethrin (sum of isomers)	0,01-0,5
21	DDE-o,p'	0,005-2	53	Heptachlor epoxide, cis	0,005-1	85	Phenthoate	0,01-1
22	DDE-p,p'	0,005-2	54	Heptachlor epoxide, trans	0,005-1	86	Phorate	0,01-0,5
23	DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0,005-2	55	Heptenophos	0,005-1	87	Phosalone	0,005-4
24	DDT-o,p'	0,005-2	56	Hexachlorobenzene (HCB)	0,005-0,5	88	Phosmet	0,005-0,5
25	DDT-p,p'	0,005-2	57	Isodrin	0,005-1	89	Phosphamidon (sum of isomers)	0,01-1
26	Diazinon	0,01-2	58	Isofenphos (-ethyl)	0,005-0,5	90	Pirimicarb	0,01-2
27	Dichlofenthion	0,01-1	59	Lindane (HCH gamma isomer)	0,005-1	91	Pirimiphos-ethyl	0,005-4
28	Dichlofluanid	0,005-10	60	Malaoxon	0,01-1	92	Pirimiphos-methyl	0,005-4
29	Dichlorvos (DDVP)	0,01-0,5	61	Malathion	0,005-10	93	Procymidone	0,01-20
30	Dicofol (sum of isomers)	0,01-4	62	Malathion (sum of malathion and malaoxon expressed as malathion)	0,005-1	94	Profenophos	0,01-10
31	Dieldrin	0,005-1,5	63	Mecarbam	0,01-0,5	95	Propachlor	0,02-0,5
32	Endosulfan (sum of alpha- and beta- isomers and endosulfan-sulphate expresses as endosulfan)	0,01-50	64	Metalaxyl and metalaxyl-M (sum of isomers)	0,01-20	96	Propetamphos	0,01-1

No.	Compound	Range [mg/kg]
97	Propiconazole (sum of isomers)	0,01-1
98	Propyzamide	0,01-2
99	Pyrazophos	0,01-0,5
100	Pyridaphenthion	0,01-1
101	Quinalphos	0,01-0,5
102	Quintozene	0,01-1
103	Quintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)	0,005-1
104	Simazine	0,01-1
105	Sulfotep	0,005-1
106	Tecnazene	0,01-0,5
107	Terbuthylazine	0,01-0,5
108	Tetramethrin (sum of isomers)	0,01-1
109	Tetrasul	0,005-1
110	Thiometon	0,01-1
111	Trifluralin	0,005-1
112	Vinclozolin	0,005-20



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THE END OF THE REPORT