

Certificate of Analysis

Product : **Backmotion**

Parameter	Method	Results	Specifications
Heavy metals			
Arsenic	ICP-MS (Q)	0.182 ± 0.065	(mg/kg)
Cadmium	ICP-MS (Q)	0.027 ± 0.011	(mg/kg)
Lead	ICP-MS (Q)	0.10 ± 0.05	(mg/kg)
Mercury	ICP-MS (Q)	< 0.005	(mg/kg)

- (1) Conform KB 2014-01-07/04.
- (2) Conform EC/1881/2006 with amendments EC/629/2008 (2008) and EC/488/2014 (2014).
- (3) Conform USP/NF [2232].

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
lycotoxins			
flatoxin B1	LC MS/MS (Q)	< 1.0	(Mg/kg)
flatoxin B2	LC MS/MS (Q)	< 1.0	(Mg/kg)
flatoxin G1	LC MS/MS (Q)	< 1.0	(Mg/kg)
flatoxin G2	LC MS/MS (Q)	< 1.0	(Mg/kg)
um (B1, B2, G1, G2)		< 4.0	(Mg/kg)
chratoxin A	LC MS/MS (Q)	5.6 ± 2.8	(Mg/kg)
olyaromatic hydrocarbons (PAH's)			
enzo[a]pyrene	GC MS (Q)	< 0.5	(Mg/kg)
enzo[a]anthracene	GC MS (Q)	< 0.5	(Mg/kg)
enzo[b] fluoranthene	GC MS (Q)	< 0.5	(Mg/kg)
hrysene	GC MS (Q)	0.9	(Mg/kg)
um PAH4		< 2.4	(Mg/kg)

(4) Conform EC/1881/2006 with amendment EC/165/2010 (2010).

(5) Conform EFSA Journal 2010; 8(6):1626 (2010) and based on 60 kg bodyweight.

(6) Conform "Warenwetregeling Verontreinigingen in Levensmiddelen" (2012).

(7) Conform EC/1881/2006 with amendment EC/1933/2015 (2015).

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Microbiology			
Aerobic plate count (TAMC)	EP 2.6.12 / ISO 4833 (Q)	2700	(cfu/g)
Yeast plate count	EP 2.6.12 / ISO 21527 (Q)	< 100	(cfu/g)
Mold plate count	EP 2.6.12 / ISO 21527 (Q)	< 100	(cfu/g)
Yeast & Mold count (TYMC)		< 200	(cfu/g)
<i>Bacillus cereus</i>	ISO 7932 (Q)	100	(cfu/g)
<i>Campylobacter</i> ssp.	ISO 10272 (Q)	N.d.	
<i>Clostridium perfringens</i>	ISO 7937 (Q)	< 10	(cfu/g)
<i>Escherichia coli</i> (<i>E. coli</i>)	EP 2.6.13 / ISO 16649 (Q)	N.d.	
<i>Salmonella</i> ssp.	EP 2.6.13 / ISO 6579 (Q)	N.d.	
<i>Staphylococcus aureus</i>	ISO 6888 (Q)	< 10	(cfu/g)

(8) Conform USP/NF [2023]; Dietary Supplements, botanicals

(9) Conform "Warenwetbesluit Bereiding en behandeling van levensmiddelen", artikel 4 lid 1.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Organochlorine pesticides			
Alachlor	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Aldrin	LC/GC-MS/MS (Q)	N.a.	
Dieldrin	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum (aldrin, dieldrin)		< 0.01	(mg/kg)
<i>a</i> -(<i>cis</i>)-Chlordane	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>Y</i> -(<i>trans</i>)-Chlordane	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
oxy-Chlordane	LC/GC-MS/MS (Q)	N.a.	
Sum (<i>a</i> -, <i>Y</i> -, oxy-chlordane)		< 0.015	(mg/kg)
<i>o,p</i> -DDD	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>o,p</i> -DDE	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>o,p</i> -DDT	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>p,p</i> -DDD	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>p,p</i> -DDE	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
<i>p,p</i> -DDT	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum DDT (<i>o,p</i> -, <i>p,p</i> - DDD, <i>o,p</i> -, <i>p,p</i> - DDE, <i>o,p</i> -, <i>p,p</i> - DDT)		< 0.03	(mg/kg)

(10) Conform 396/2005/EU with amendments (M1-M64) and corrections (C1-C7); code no. 0800000.

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

(12) Indicates lower limit of analytical determination.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
a-Endosulfan	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
p-Endosulfan	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Endosulfan-sulfate	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum (a-, p-endosulfan, sulfate)		< 0.015	(mg/kg)
Endrin	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Heptachlor	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
cis -Heptachlorepoxyde	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
trans-Heptachlorepoxyde	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum (heptachlor, -epoxydes)		< 0.015	(mg/kg)
Hexachlorobenzene (HCB)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
a-HCH	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
P-HCH	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
6-HCH	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum (a-, p-, 6-HCH)		< 0.015	(mg/kg)
Lindane (γ-HCH)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Methoxychlor	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)

(10) Conform 396/2005/EU with amendments (M1-M64) and corrections (C1-C7); code no. 0800000.

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

(12) Indicates lower limit of analytical determination.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Mirex	LC/GC-MS/MS (Q)	N.a.	
Pentachloroaniline (PCAB)	LC/GC-MS/MS (Q)	N.a.	
Pentachloronitrobenzene (PCNB, quintozene) Sum (PCAB, PCNB)	LC/GC-MS/MS (Q)	< 0.005 < 0.015	(mg/kg) (mg/kg)
Tecnazene	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Tetradifon	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Organophosphorus pesticides			
Acephate	LC/GC-MS/MS (Q)	N.a.	
Azin	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Azinphos-methyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Bromophos-ethyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Bromophos-methyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)

(10) Conform 396/2005/EU with amendments (M1-M64) and corrections (C1-C7); code no. 0800000.

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

(12) Indicates lower limit of analytical determination.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Chlorfenvinphos	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Chlorpyrifos (-ethyl)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Chlorpyrifos-methyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Diazinon	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Dichlorvos (DDVP)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Dimethoate	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Omethoate	LC/GC-MS/MS (Q)	N.a.	
Sum (dimethoate, omethoate)		< 0.01	(mg/kg)
Ethion	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Etrimphos	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Fenclorophos	LC/GC-MS/MS (Q)	N.a.	
Fenitrothion	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Fenthion	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)

(10) Conform 396/2005/EU with amendments (M1-M64) and corrections (C1-C7); code no. 0800000.

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

(12) Indicates lower limit of analytical determination.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Fonophos	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Heptenophos	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Malaoxon	LC/GC-MS/MS (Q)	N.a.	
Malathion	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Sum (malaoxon, malathion)		< 0.01	(mg/kg)
Mecarbam	LC/GC-MS/MS (Q)	N.a.	
Methamidophos	LC/GC-MS/MS (Q)	N.a.	
Methidathion	LC/GC-MS/MS (Q)	N.a.	
Monocrotophos	LC/GC-MS/MS (Q)	N.a.	
Parathion (-ethyl)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Paraoxon-ethyl	LC/GC-MS/MS (Q)	N.a.	
Sum (parathion, -oxon, -ethyl)		< 0.01	(mg/kg)
Parathion-methyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Paraoxon-methyl	LC/GC-MS/MS (Q)	N.a.	
Sum (parathion, -oxon, -methyl)		< 0.01	(mg/kg)

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Phosalone	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Phosmet	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Pirimiphos-ethyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Pirimiphos-methyl	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Profenophos	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Prothiophos	LC/GC-MS/MS (Q)	N.a.	
Quinalphos	LC/GC-MS/MS (Q)	N.a.	
Organonitrogen pesticides			
Amitraz	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Vinchlozolin	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Other pesticides			
Brompropylate	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Cyfluthrin	LC/GC-MS/MS (Q)	< 0.03	(mg/kg)

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
A-Cyhalothrin	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Cypermethrine	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Deltamethrine	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Dichlofluanid	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Dicofol	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Fenpropathrin	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
RR- / SS-Fenvalarate	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
RS- / SR-Fenvalarate	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Sum (Fenvalarates)	LC/GC-MS/MS (Q)	< 0.02	(mg/kg)
Flucytrinate	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
T-Fluvalinate	LC/GC-MS/MS (Q)	< 0.01	(mg/kg)
Pendimethalin	LC/GC-MS/MS (Q)	N.a.	
Permethrin	LC/GC-MS/MS (Q)	< 0.02	(mg/kg)

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable

Parameter	Method	Results	Specifications
Piperonyl butoxide	LC/GC-MS/MS (Q)		(mg/kg)
Procymidone	LC/GC-MS/MS (Q)	0.01 < 0.005	(mg/kg)
Propoxur	LC/GC-MS/MS (Q)	N.a.	
Pyrethrum (<i>sum</i>)	LC/GC-MS/MS (Q)	N.a.	
Sulfotep (TEDP)	LC/GC-MS/MS (Q)	< 0.005	(mg/kg)
Additional 66 pesticides / metabolites (full list available upon request)	LC/GC-MS/MS (Q)	N.d.	N.d. ⁽¹²⁾

(10) Conform 396/2005/EU with amendments (M1-M64) and corrections (C1-C7); code no. 0800000.

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

(12) Indicates lower limit of analytical determination.

(Q): accredited, or performed under accreditation by contractor; (N.d.): not detectable; (N.a.): not applicable