

Weteringweg 14
 2641 KM Pijnacker
 The Netherlands (NL)

Tel: +31(0)15-3614477
 Fax: +31(0)15-3614455

CERTIFICATE OF ANALYSIS

Product : Selaginellae herba (Shi Shang Bai)
Lot no. : None
Customer id. : None

Sample date : 07-apr.-2016
Sample id. (ENDC) : 34427.8.274

Parameter	Method	Results	Specifications
Heavy metals			
Arsenic	ICP-MS (Q)	0,184 ± 0,065 (mg/kg)	< 1.0 ⁽¹⁾ (mg/kg)
Cadmium	ICP-MS (Q)	0,011 ± 0,005 (mg/kg)	< 1.0 ⁽²⁾ (mg/kg)
Lead	ICP-MS (Q)	0,06 ± 0,04 (mg/kg)	< 3.0 ⁽²⁾ (mg/kg)
Mercury	ICP-MS (Q)	< 0,005 (mg/kg)	< 0.10 ⁽²⁾ (mg/kg)
Daily intake (Arsenic)		1,5 (µg/day)	< 15 ⁽³⁾ (µg/day)
Daily intake (Cadmium)		0,1 (µg/day)	< 5 ⁽³⁾ (µg/day)
Daily intake (Lead)		0,6 (µg/day)	< 5 ⁽³⁾ (µg/day)
Daily intake (Mercury)		0,03 (µg/day)	< 15 ⁽³⁾ (µg/day)

(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

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Parameter	Method	Results	Specifications
Mycotoxins			
Aflatoxin B1	LC MS/MS (Q)	< 1,0 (µg/kg)	< 5.0 ⁽⁴⁾ (µg/kg)
Aflatoxin B2	LC MS/MS (Q)	< 1,0 (µg/kg)	
Aflatoxin G1	LC MS/MS (Q)	< 1,0 (µg/kg)	
Aflatoxin G2	LC MS/MS (Q)	< 1,0 (µg/kg)	
Sum (B1, B2, G1, G2)		< 1,5 (µg/kg)	< 10.0 ⁽⁴⁾ (µg/kg)
Ochratoxin A	LC MS/MS (Q)	< 1,0 (µg/kg)	
Weekly intake (Ochratoxin A)		< 0,014 (µg/wk)	< 72 ⁽⁵⁾ (µg/wk)
Polyaromatic hydrocarbons (PAH's)			
Benzo[a]pyrene	GC MS (Q)	< 0,5 (µg/kg)	< 10.0 ^(6,7) (µg/kg)
Benzo[a]anthracene	GC MS (Q)	1,9 (µg/kg)	
Benzo[b]fluoranthene	GC MS (Q)	0,9 (µg/kg)	
Chrysene	GC MS (Q)	1,4 (µg/kg)	
Sum PAH4		4,7 (µg/kg)	< 50.0 ⁽⁷⁾ (µg/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).

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Microbiology			
Aerobic plate count (TAMC)	EP 2.6.12 / ISO 4833 (Q)	< 10 (cfu/g)	< 10000 ⁽⁸⁾ (kve/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)	< 1000 ⁽⁸⁾ (cfu/g)
<i>Bacillus cereus</i>	ISO 7932 (Q)	< 100 (cfu/g)	< 10 ⁵ ⁽⁹⁾ (cfu/g)
<i>Campylobacter</i> ssp.	ISO 10272 (Q)	N.d.	N.d./ 25 g ⁽⁹⁾
<i>Clostridium perfringens</i>	ISO 7937 (Q)	< 10 (cfu/g)	< 10 ⁵ ⁽⁹⁾ (cfu/g)
<i>Escherichia coli</i> (<i>E. coli</i>)	EP 2.6.13 / ISO 16649 (Q)	N.d.	N.d./ 10 g ⁽⁸⁾
<i>Salmonella</i> ssp.	EP 2.6.13 / ISO 6579 (Q)	N.d.	N.d./ 25 g ^(8,9)
<i>Staphylococcus aureus</i>	ISO 6888 (Q)	< 10 (cfu/g)	< 10 ⁵ ⁽⁹⁾ (cfu/g)

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

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

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Parameter	Method	Results	Specifications
Organochlorine pesticides			
Alachlor	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (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)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
α-(cis)-Chlordane	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
γ-(trans)-Chlordane	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
oxy-Chlordane	LC/GC-MS/MS (Q)	N.a.	
Sum (α-, γ-, oxy-chlordane)		< 0,015 (mg/kg)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
o,p- DDD	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
o,p- DDE	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
o,p- DDT	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
p,p- DDD	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
p,p- DDE	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
p,p- DDT	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Sum DDT (o,p-, p,p- DDD, o,p-, p,p- DDE, o,p-, p,p- DDT)		< 0,03 (mg/kg)	< 1 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (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.

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α -Endosulfan	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
β -Endosulfan	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Endosulfan-sulfate	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Sum (α -, β -endosulfan, sulfate)		< 0,015 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Endrin	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (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)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Hexachlorobenzene (HCB)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
α -HCH	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
β -HCH	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
δ -HCH	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Sum (α -, β -, δ -HCH)		< 0,015 (mg/kg)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 0.3 ⁽¹¹⁾ (mg/kg)
Lindane (γ -HCH)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.5 ⁽¹⁰⁾ (mg/kg) < 0.6 ⁽¹¹⁾ (mg/kg)
Methoxychlor	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)

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Parameter	Method	Results	Specifications
Mirex	LC/GC-MS/MS (Q)	N.a.	< 0.01 ⁽¹¹⁾ (mg/kg)
Pentachloroaniline (PCAB)	LC/GC-MS/MS (Q)	N.a.	
Pentachloronitrobenzene (PCNB, quintozene)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Sum (PCAB, PCNB)		< 0,015 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.015 ⁽¹¹⁾ (mg/kg)
Tecnazene	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Tetradifon	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.3 ⁽¹¹⁾ (mg/kg)
Organophosphorus pesticides			
Acephate	LC/GC-MS/MS (Q)	N.a.	< 0.2 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Azinphos-ethyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.5 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Azinphos-methyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.5 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (mg/kg)
Bromophos-ethyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Bromophos-methyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)

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Chlorfenvinphos	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.5 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Chlorpyrifos (-ethyl)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.2 ⁽¹¹⁾ (mg/kg)
Chlorpyrifos-methyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Diazinon	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.5 ⁽¹¹⁾ (mg/kg)
Dichlorvos (DDVP)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (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)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Ethion	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 2 ⁽¹¹⁾ (mg/kg)
Etrimphos	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg)
Fenchlorophos	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹¹⁾ (mg/kg)
Fenitrothion	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.5 ⁽¹¹⁾ (mg/kg)
Fenthion	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)

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Fonophos	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.05 ⁽¹¹⁾ (mg/kg)
Heptenophos	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.005 ⁽¹²⁾ (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)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (mg/kg)
Mecarbam	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Methamidophos	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Methidathion	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.2 ⁽¹¹⁾ (mg/kg)
Monocrotophos	LC/GC-MS/MS (Q)	N.a.	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Parathion (-ethyl)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Paraaxon-ethyl	LC/GC-MS/MS (Q)	N.a.	
Sum (parathion, -oxon, -ethyl)		< 0,01 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.2 ⁽¹¹⁾ (mg/kg)
Parathion-methyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	
Paraaxon-methyl	LC/GC-MS/MS (Q)	N.a.	
Sum (parathion, -oxon, -methyl)		< 0,01 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.2 ⁽¹¹⁾ (mg/kg)

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Phosalone	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Phosmet	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.05 ⁽¹¹⁾ (mg/kg)
Pirimiphos-ethyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹¹⁾ (mg/kg)
Pirimiphos-methyl	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 4 ⁽¹¹⁾ (mg/kg)
Profenophos	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Prothiophos	LC/GC-MS/MS (Q)	N.a.	< 0.05 ⁽¹¹⁾ (mg/kg)
Quinalphos	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Organonitrogen pesticides			
Amitraz	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg)
Vinchlozolin	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.4 ⁽¹¹⁾ (mg/kg)
Other pesticides			
Brompropylate	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 3 ⁽¹¹⁾ (mg/kg)
Cyfluthrin	LC/GC-MS/MS (Q)	< 0,03 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)

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Weteringweg 14
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 The Netherlands (NL)

Tel: +31(0)15-3614477
 Fax: +31(0)15-3614455

CERTIFICATE OF ANALYSIS

Product : Selaginellae herba (Shi Shang Bai)
Lot no. : None
Customer id. : None

Sample date : 07-apr.-2016
Sample id. (ENDC) : 34427.8.274

Continued ...

Parameter	Method	Results	Specifications
λ-Cyhalothrin	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (mg/kg)
Cypermethrine	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (mg/kg)
Deltamethrine	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg) < 0.5 ⁽¹¹⁾ (mg/kg)
Dichlofluanid	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.1 ⁽¹¹⁾ (mg/kg)
Dicofol	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.5 ⁽¹¹⁾ (mg/kg)
Fenpropathrin	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.02 ⁽¹⁰⁾ (mg/kg) < 0.03 ⁽¹¹⁾ (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)	< 1.5 ⁽¹¹⁾ (mg/kg)
Flucytrinate	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
τ-Fluvalinate	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 0.01 ⁽¹⁰⁾ (mg/kg) < 0.05 ⁽¹¹⁾ (mg/kg)
Pendimethalin	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg) < 0.1 ⁽¹¹⁾ (mg/kg)
Permethrin	LC/GC-MS/MS (Q)	< 0,02 (mg/kg)	< 0.1 ⁽¹⁰⁾ (mg/kg) < 1 ⁽¹¹⁾ (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.

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CERTIFICATE OF ANALYSIS

Product : Selaginellae herba (Shi Shang Bai)
Lot no. : None
Customer id. : None

Sample date : 07-apr.-2016
Sample id. (ENDC) : 34427.8.274

Continued ...

Parameter	Method	Results	Specifications
Piperonyl butoxide	LC/GC-MS/MS (Q)	< 0,01 (mg/kg)	< 3 ⁽¹¹⁾ (mg/kg)
Procymidone	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.05 ⁽¹⁰⁾ (mg/kg)
			< 0.1 ⁽¹¹⁾ (mg/kg)
Propoxur	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg)
Pyrethrum (<i>sum</i>)	LC/GC-MS/MS (Q)	N.a.	< 0.1 ⁽¹⁰⁾ (mg/kg)
			< 3 ⁽¹¹⁾ (mg/kg)
Sulfotep (TEDP)	LC/GC-MS/MS (Q)	< 0,005 (mg/kg)	< 0.01 ⁽¹²⁾ (mg/kg)
Additional 67 pesticides / metabolites (full list available upon request)	LC/GC-MS/MS (Q)	N.d.	N.d. ⁽¹²⁾

Date : 4-mei-16

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

(11) Conform European Pharmacopoeia, paragraph 2.8.13.

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