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Herbs Energy s.r.o.
Narodni 135/14
Praha 1 11000
TSCHECHISCHE REPUBLIK

Date 03.01.2023
Customer no. 10090266

REPORT

Order	**3189665** Ashwagndha
Sample no.	**713625**
Sample acceptance	**22.12.2022**
Customer sample description	**Ashwagandha with Piperin and L-theanin**
LOT-No./Batch	**HEA001**
BBD	**2024/11/02**
Packaging	**4x Original, 45g, 90 caps**

	Unit	Result	Declaration		Substance	Method
Pesticides analyzed by multimethods (see appendix for list of all analyzed pesticides)						
Following pesticides from the list of all analyzed pesticides in appendix had been detected above LOQ:						
2,4-D (free acid)	mg/kg	**0,021**			OM	EN 15662 : 2018-05 (mod.)
Acetamiprid	mg/kg	**0,11**			OM	EN 15662 : 2018-05 (mod.)
Anthraquinone	mg/kg	**0,017**			OM	EN 15662 : 2018-05 (mod.)
Cypermethrin	mg/kg	**0,056**			OM	EN 15662 : 2018-05 (mod.)
Fipronil	mg/kg	**0,003**			OM	EN 15662 : 2018-05 (mod.)
Fipronil-sulfon	mg/kg	**0,004**			OM	EN 15662 : 2018-05 (mod.)
Sum fipronil, -sulfone (MB 46136)	mg/kg	**0,007**			OM	calculated
Phthalimide	mg/kg	**0,090**			OM	EN 15662 : 2018-05 (mod.)
Sum of Folpet and Phthalimid	mg/kg	**0,18** *x)*			OM	calculated
Trace elements / Heavy metals / Halogenides						
Lead (Pb)	mg/kg	**<0,50**			OM	DIN EN 15763 : 2010-04
Cadmium (Cd)	mg/kg	**<0,20**			OM	DIN EN 15763 : 2010-04
Mercury (Hg)	mg/kg	**<0,02**			OM	DIN EN 13806 : 2002-11
Arsenic (As)	mg/kg	**<0,50**			OM	DIN EN 15763 : 2010-04
Polycyclic aromatic hydrocarbons (PAH)						
Benzo(a)anthracene	µg/kg	**<5,0**			OM	VDLUFA VII, 3.3.3.2 : 2011 (mod.)
Benzo(a)pyrene	µg/kg	**4,9**			OM	VDLUFA VII, 3.3.3.2 : 2011 (mod.)
Benzo(b)fluoranthene	µg/kg	**<5,0**			OM	VDLUFA VII, 3.3.3.2 : 2011 (mod.)
Chrysene	µg/kg	**10**			OM	VDLUFA VII, 3.3.3.2 : 2011 (mod.)
Sum PAH	µg/kg	**14,9** *x)*			OM	calculated
Microbiological examinations						
Aerobic mesophilic plate count (total plate count)	cfu/g	**<10 (LOD)**			OM	DIN EN ISO 4833-1 : 2022-05
Enterobacteriaceae	cfu/g	**<1 (LOD)**			OM	RAPID'Enterobacteriaceae®; AFNOR-certificate No: BRD 07/24-11/13 : 2018-03 (validated in reference to NF EN ISO 21528-2:2017-07)
Escherichia coli	in 1 g	**not detected**			OM	DIN EN ISO 16649-3 : 2018-01
Staphylococcus, coagulase-positive in 1 g		**not detected**			OM	DIN EN ISO 6888-3 : 2005-07 (mod.)
Yeasts	cfu/g	**<10 (LOD)**			OM	ISO 21527-2 : 2008-07
Moulds	cfu/g	**<10 (LOD)**			OM	ISO 21527-2 : 2008-07
Salmonella spp. in 10g		**not detected**			OM	ISO 6579-1 : 2017-02

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x) Single values below the quantification limit or the detection limit were not taken into account.
pm) The limit of detection had to be raised due to insufficient sample material for extraction and analysis
m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantification was increased.
Explanation: The symbol "<" or n.d. in the result column means, the substance concerned is not quantifiable at the limit of quantification shown opposite.
The sign "<"...."(LOD)" or n.d. in column result means, the substance concerned cannot be detected within the limit of detection. Parameter-specific analytical measurement uncertainties and information regarding the method of calculation will be provided upon request if the reported results are above the parameter-specific limit of quantification.

Explanation: OM = on original matter; DM = on dry matter base

Remark to hydrolysis-relevant substances without carrying out the hydrolysis module:The validated limit of quantification is 0,01 mg/kg. All data below this determination limit are to be interpreted as non-quantifiable traces. The actual content including the bound residues can only be determined via an additional hydrolysis step.
Remark to Cypermethrin: Cypermethrin including other mixtures of constituent isomers (sum of isomers) (F).
Remark to Sum fipronil, -sulfone (MB 46136): Sum fipronil + sulfone metabolite (MB46136) expressed as fipronil (F).
Remark to Sum folpet and phtalimide: Sum of folpet and phtalimide, expressed as folpet) (R).
Remark to Salmonella spp.:
In the testing of Salmonella spp. according to ISO 6579-1 Salmonella Typhi and Salmonella Paratyphi are not included. These bacteria/germs are hardly found in food.If on the side of the customer there is a justified case of suspicion these two subspecies can be analysed by a PCR test, which needs to be ordered separately by the customer.In case of positive Salmonella results a confirmation of Salmonella spp. was conducted by MALDI-TOF (database BDAL/7311 MSPS).

Remarks

Verkehrsfähigkeit:
Obengenanntes Produkt entspricht nach Art und Umfang der dargelegten Prüfungen den Vorschriften des deutschen Lebensmittelrechts und ist aus hiesiger Sicht insoweit in Deutschland verkehrsfähig. Hiervon ausgenommen sind die Pestizide.

Begründung:
Die Pestizide sind von der Verkehrsfähigkeit ausgenommen, da das Produkt aus mehreren Zutaten besteht und die Verarbeitungs-/Extraktionsfaktoren für diese nicht vorliegen. Es kann somit nicht abschließend beurteilt werden, ob und inwiefern eine Zutat verwendet worden ist, die eine Überschreitung der Höchstmengen der nachgewiesenen Pestizide aufweist.

Es wird empfohlen, die eingesetzten Rohwaren auf die nachgewiesenen Pestizide zu analysieren und die Verarbeitungs-/Extraktionsfaktoren für die Zutaten zu prüfen.

Start of testing: 22.12.2022
End of testing: 03.01.2023

The results are related only to the samples tested. In cases where the laboratory has not been responsible for sampling, the reported results apply to the samples as received. Duplication of this document or of parts of it requires the authorization from laboratory. In accordance our agreement in writing in the order confirmation, the results in this test report are in a simplified form in the context of DIN EN ISO/IEC 17025:2018, paragraph 7.8.1.3.

AGROLAB LUFA Frau Wiebke Stelter, Tel. 0431/1228-312
officially approved foodchemist
customer relation management

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Deutsche Akkreditierungsstelle D-PL-14082-01-00

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Sample no. **713625**

List of all analyzed pesticides (limit of quantification [mg/kg])

Method: calculated, Unit: mg/kg

Parameter	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*
Sum acibenzolar-S-methyl and acibenzolar acid (without hydrolysis)		Sum aldicarb/-sulfon/-sulfoxid		Sum aldrin, dieldrin	
Sum amitraz		Sum bentazone		Sum captan and Tetrahydrophthalimide (THPI)	
Sum carbofuran, 3-hydroxycarbofuran		Sum carboxin		Sum chloridazon	
Sum chlorpyrifos-methyl		Sum clethodim		Sum cycloxydim	
Sum DDT-isomers		Sum disulfoton		Sum endosulfan-alpha, -beta, -sulfat	
Sum ethofumesate		Sum fenamiphos, -sulphoxide, -sulphone		Sum fenchlorphos	
Sum fenthion		Sum fipronil, -sulfone (MB 46136)		Sum flonicamid	
Sum flufenacet		Sum heptachlor, heptachlorepoxide		Sum Isoxaflutole	
Sum MCPA, MCPB (without hydrolysis)		Sum metazachlor		Sum methiocarb, -sulfone, -sulfoxide	
Sum of cis- and trans-chlordane (F) (R)		Sum of Folpet and Phthalimid		Sum of malathion and malaoxon	
Sum oxydemeton-methyl, demeton-S-methyl-sulfon		Sum Parathion-methyl		Sum Pencycuron	
Sum phorate		Sum phosmet and phosmet-oxon		Sum prochloraz	
Sum propachlor		Sum propoxycarbazone		Sum pyraflufen-ethyl	
Sum pyrethrins		Sum pyridate (without hydrolysis)		Sum quintozene and pentachloro-aniline	
Sum spirotetramat		Sum tepraloxydim		Sum tolylfluanid	
Sum triflumizole and FM 6-1		1-naphthylacetamide and 1-naphthylacetic acid			

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Sample no. **713625**

Method: EN 15662 : 2018-05 (mod.), Unit: mg/kg

Parameter	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*
Acephate	0,01	Acetamiprid	0,01	Acibenzolaracid (free acid)	0,01
Acibenzolar-S-methyl (before hydrolysis)	0,01	Aclonifen	0,01	Acrinathrin and its enantiomer	0,01
Alachlor	0,01	Aldicarb	0,01	Aldicarb-sulfon	0,01
Aldicarb-sulfoxide	0,01	Aldrin	0,005	Ametoctradin	0,01
Ametryn	0,01	Aminocarb	0,01	Amitraz	0,01
Anthraquinone	0,01	Atrazine	0,01	Azaconazole	0,01
Azadirachtin	0,01	Azinphos-ethyl	0,01	Azinphos-methyl	0,01
Azoxystrobin	0,01	Benalaxyl	0,01	Bendiocarb	0,01
Benfluralin	0,01	Bensulfuron-methyl	0,01	Bentazone	0,01
Benthiavalicarb-isopropyl	0,01	Benzovindiflupyr	0,01	Bifenazate	0,01
Bifenox	0,01	Bifenthrin	0,01	Biphenyl (Diphenyl)	0,01
Bitertanol	0,01	Bixafen	0,01	Boscalid	0,01
Bromacil	0,01	Bromocyclen	0,01	Bromophos-ethyl	0,01
Bromophos-methyl	0,01	Bromopropylate	0,01	Bromoxynil	0,01
Bromuconazole	0,01	Bupirimate	0,01	Buprofezin	0,01
Butafenacil	0,01	Butocarboxim	0,01	Butocarboxim-sulfoxide	0,01
Butoxycarboxim	0,01	Cadusafos	0,01	Captafol	0,1 m)
Captan	0,05 m)	Carbaryl	0,01	Carbofuran	0,02 m)
Carbophenothion	0,01	Carbophenothion-methyl	0,01	Carbosulfan	0,01
Carboxin	0,01	Carboxinsulfoxide	0,01	Chlorantraniliprol	0,01
Chlorbenside	0,01	Chlorbufam	0,01	Chlordane alpha	0,005
Chlordane gamma	0,005	Chlordane oxy	0,005	Chlorfenapyr	0,01
Chlorfenprop-methyl	0,01	Chlorfenson	0,01	Chlorfluazuron	0,01
Chlorflurenol	0,01	Chlorflurenol-methyl	0,01	Chloridazon	0,05 pm)
Chlorimuron-ethyl	0,01	Chlormephos	0,01	Chlorobenzilate	0,01
Chloroneb	0,01	Chlorotoluron	0,01	Chlorphenvinphos	0,01
Chlorpropham	0,01	Chlorpropylate	0,01	Chlorpyrifos	0,01
Chlorpyrifos-methyl	0,01	Chlorpyrifos-methyl-desmethyl	0,01	Chlorthal-dimethyl	0,01
Chlorthalonil	0,01	Chlorthion	0,01	Chlorthiophos	0,01
Chlozolinate	0,01	Chromafenocide	0,01	Cinerin I	0,01
Cinerin II	0,01	Cinosulfuron	0,01	Clethodim	0,01
Clethodimsulfon	0,01	Clethodimsulfoxide	0,01	Climbazole	0,01
Clodinafop	0,01	Clodinafop-propargyl	0,01	Clofentezin	0,01
Clomazone	0,01	Clopyralid	0,1 m)	Cloquintocet-mexyl	0,01
Clothianidin	0,01	Coumaphos	0,01	Crimidine	0,01
Cyanazin	0,01	Cyanofenphos	0,01	Cyanophos	0,01
Cyantraniliprol	0,01	Cyazofamid	0,01	Cyclanilid	0,01
Cycloate	0,01	Cycloxydim	0,01	Cyflufenamid	0,01
Cyflumetofen	0,01	Cyfluthrin	0,01	Cyhalofop-butyl	0,01
Cyhalothrin	0,02 m)	Cymoxanil	0,01	Cypermethrin	0,01
Cyproconazole	0,01	Cyprodinil	0,01	Deltamethrin	0,01
Demeton-S-methyl	0,01	Demeton-S-methyl-sulfone	0,01	Desmedipham	0,01
Desmetryn	0,01	Diazinon	0,01	Dichlobenil	0,01
Dichlofenthione	0,01	Dichlofluanid	0,01	Dichlorprop (free acid)	0,01
Dichlorvos	0,01	Diclobutrazole	0,01	Diclofop	0,01
Dicloran	0,01	Dicofol	0,01	Dicrotophos	0,01
Dieldrin	0,005	Diethofencarb	0,01	Diethyltoluamide (DEET)	0,01
Difenacoum	0,01	Difenoconazole	0,01	Diflubenzuron	0,01
Diflufenican	0,01	Dimethenamide	0,01	Dimethoate	0,01
Dimethomorph	0,01	Dimethylaminosulfotoluidide (DMST)	0,01	Dimoxystrobin	0,01
Diniconazole	0,01	Dinocap	0,01	Dinotefuran	0,01
Dinoterb (before hydrolysis)	0,01	Diphenamid	0,01	Diphenylamine	0,01
Dipropetryn	0,01	Disulfoton	0,01	Disulfoton-sulfone	0,01
Disulfoton-sulfoxide	0,01	Ditalimfos	0,01	Diuron	0,01
DMSA	0,01	Dodemorph	0,01	Dodin	0,01
Emamectin	0,01	Endosulfan alpha	0,005	Endosulfan beta	0,005
Endosulfansulfat	0,005	Endrin	0,005	Endrin Ketone	0,01
EPN	0,01	Epoxiconazole	0,01	EPTC	0,01
Etaconazole	0,01	Ethalfluralin	0,01	Ethiofencarb	0,01
Ethiofencarb-sulfon	0,01	Ethiofencarb-sulfoxide	0,01	Ethion	0,01
Ethiprole	0,01	Ethirimol	0,01	Ethofumesate	0,01
Ethofumesate-2-keto	0,05	Ethoprophos	0,01	Etofenprox	0,01
Etoxazole	0,01				

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REPORT

Order **3189665** Ashwagndha
Sample no. **713625**

Method: EN 15662 : 2018-05 (mod.), Unit: mg/kg

Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
		Etridiazole	0,01	Etrimfos	0,01
Famoxadone	0,01	Famphur	0,01	Fenamidone	0,01
Fenamiphos	0,01	Fenamiphos-sulfoxide	0,01	Fenamiphos-sulphone	0,01
Fenarimole	0,01	Fenazaquine	0,01	Fenbuconazole	0,01
Fenbutatin oxide	0,01	Fenchlorphos	0,01	Fenchlorphos-oxon	0,01
Fenfluthrin	0,01	Fenhexamid	0,01	Fenitrothion	0,01
Fenobucarb	0,01	Fenoxaprop	0,01	Fenoxycarb	0,01
Fenpiclonil	0,01	Fenpropathrine	0,01	Fenpropidin	0,01
Fenpropimorph	0,01	Fenpyrazamin	0,01	Fenpyroximate	0,01
Fenson	0,01	Fensulfothion	0,01	Fensulfothion-oxon	0,01
Fensulfothion-oxon-sulfon	0,01	Fensulfothion-sulfon	0,01	Fenthion	0,01
Fenthion-oxone	0,01	Fenthion-oxon-sulfon	0,01	Fenthionoxonsulfoxide	0,01
Fenthion-sulfon	0,01	Fenthion-sulfoxide	0,01	Fentin	0,01
Fenuron	0,01	Fenvalerate	0,01	Fipronil	0,002
Fipronil-sulfon	0,002	Flonicamid	0,01	Fluazifop (free acid)	0,01
Fluazifop-butyle	0,01	Fluazinam	0,01	Flubendiamid	0,01
Fluchloralin	0,01	Flucythrinat	0,01	Fludioxonil	0,01
Flufenacet	0,01	Flufenacet ESA (ethansulfonic acid)	0,01	Flufenacet OA (Oxalamic Acid)	0,01
Flufenacet-alcohol	0,01	Flufenacet-thioglycolat-sulfoxid	0,01	Flufenoxuron	0,01
Flufenzin	0,01	Flumetralin	0,01	Flumioxazin	0,01
Fluometuron	0,01	Fluopicolide	0,01	Fluopyram	0,01
Fluoxastrobin	0,01	Fluquinconazole	0,01	Flurochloridone	0,01
Fluroxypyr (free acid)	0,01	Flurprimidol	0,01	Flusilazole	0,01
Fluthiacet-methyl	0,01	Flutolanil	0,01	Flutriafol	0,01
Fluxapyroxad	0,01	FM 6-1	0,01	Folpet	0,01
Fonofos	0,01	Forchlorfenuron	0,01	Formetanate(hydrochloride)	0,01
Formothion	0,01	Fosthiazat	0,01	Fuberidazole	0,01
Furalaxyl	0,01	Furathiocarb	0,01	Genite	0,01
Halfenprox	0,01	Halofenozid	0,01	Haloxyfop (free acid)	0,01
Haloxyfop methyl	0,01	Haloxyfop-ethoxy-ethyl	0,01	HCH-alpha	0,005
HCH-beta	0,005	HCH-delta	0,005	HCH-epsilon	0,005
HCH-gamma (Lindane)	0,005	Heptachlor	0,005	Heptachlorepoxide-cis	0,005
Heptachlorepoxide-trans	0,005	Heptenophos	0,01	Hexachlorobenzene	0,005
Hexaconazole	0,01	Hexaflumuron	0,01	Hexazinone	0,01
Hexithiazox	0,01	Icaridin (Picaridin)	0,01	Imazalil	0,01
Imazamox	0,01	Imazapic	0,01	Imazaquine	0,01
Imazethapyr	0,01	Imibenconazole	0,01	Imidacloprid	0,05 m)
Indoxacarb	0,01	Iodofenphos	0,01	Iodosulfuron-methyl-sodium	0,01
Ioxynil	0,01	Iprobenfos	0,01	Iprodion	0,01
Iprovalicarb	0,01	Isazofos	0,01	Isocarbophos	0,01
Isodrin	0,01	Isofenphos	0,01	Isofenphos-methyl	0,01
Isofetamid	0,01	Isoprocarb	0,01	Isoprothiolane	0,01
Isoproturon	0,01	Isopyrazam	0,01	isoxaben	0,01
Isoxadifen-ethyl	0,01	Isoxaflutole	0,01	Isoxathion	0,01
jasmolin I	0,01	jasmolin II	0,01	Kresoxim-methyl	0,01
lambda-cyhalothrin	0,02 m)	Landrin (3,4,5-Trimethacarb)	0,01	Lenacil	0,01
Leptophos	0,01	Linuron	0,01	Lufenuron	0,01
Malaoxon	0,01	Malathion	0,01	Mandestrobin	0,01
Mandipropamid	0,01	MCPA (free acid)	0,01	MCPB (free acid)	0,01
Mecarbame	0,01	Mecoprop	0,01	Mefenpyr-diethyl	0,01
Mepanipyrim	0,01	Mepronil	0,01	Meptyldinocap	0,01
Metaflumizone	0,01	Metalaxyl (Sum of Metalaxyl and Metalaxyl-M)	0,01	Metaldehyd	0,01
Metamitron	0,01	Metazachlor	0,01	Metconazole	0,01
Methabenzthiazuron	0,01	Methacrifos	0,01	Methamidophos	0,01
Methidathion	0,01	Methiocarb	0,01	Methiocarb-sulfon	0,01
Methiocarb-sulfoxid	0,01	Methomyl	0,01	Methoprotryne	0,01
Methoxychlor	0,005	Methoxyfenozide	0,01	Metobromuron	0,01
Metolachlor	0,01	Metolcarb	0,01	Metosulam	0,01
Metoxuron	0,01	Metrafenone	0,01	Metribuzin	0,01
Metsulfurone-methyl	0,01	Mevinphos	0,01	Mirex	0,005
Molinate	0,01	Monocrotophos	0,01	Monolinuron	0,01
Monuron	0,01	Myclobutanil	0,01	Napropamide	0,01

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REPORT

Order **3189665** Ashwagndha
Sample no. **713625**

Method: EN 15662 : 2018-05 (mod.), Unit: mg/kg

Parameter	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*
Neburon	0,01	Nicosulfuron	0,01	Nitenpyram	0,05 m)
Nitralin	0,01	Nitrapyrin	0,01	Nitrofen	0,005
Nitrothal-isopropyl	0,01	Norflurazone	0,01	Novaluron	0,01
Nuarimol	0,01	N-2,4-Dimethylphenyl-N-methylformamidine	0,01	Octachlordipropylether (S421)	0,01
Ofurace	0,01	Omethoate	0,01	o,p-DDD	0,005
o,p-DDE	0,005	o,p-DDT	0,005	Oxadiazon	0,01
Oxadixyle	0,01	Oxamyl	0,01	Oxathiapiprolin	0,01
Oxycarboxin	0,01	Oxydemeton-methyl	0,01	Oxyfluorfen	0,01
Paclobutrazol	0,01	Paraoxon-ethyl	0,01	Paraoxon-methyl	0,02
Parathion-ethyl	0,01	Parathion-methyl	0,01	Pebulate	0,01
Penconazol	0,01	Pencycuron	0,01	Pencycuron-PB-amin	0,01
Pendimethalin	0,01	Pentachloro-aniline	0,01	Pentachloroanisol	0,01
Pentachlorobenzene	0,01	Pentachlorophenole (PCP)	0,01	Penthiopyrad	0,01
Permethrin	0,01	Perthane	0,01	Pethoxamid	0,01
Phenkapton	0,01	Phenmedipham	0,01	Phenthoate	0,01
Phorate	0,01	Phorat-oxon	0,01	Phorat-oxon-sulfon	0,01
Phorat-oxon-sulfoxid	0,01	Phorat-sulfon	0,01	Phorat-sulfoxid	0,01
Phosalone	0,01	Phosmet	0,01	Phosmet-oxon	0,01
Phosphamidon	0,01	phoxim	0,01	Phthalimide	0,02
Picolinafen	0,01	Picoxystrobin	0,01	Piperonylbutoxide	0,01
Pirimicarb	0,01	Pirimiphos-ethyl	0,01	Pirimiphos-methyl	0,01
p,p-DDD	0,005	p,p-DDE	0,005	p,p-DDT	0,005
Prochloraz	0,01	Prochloraz desimidazole-amino (BTS 44595)	0,01	Prochloraz desimidazole-formylamino (BTS 44596)	0,01
Procymidone	0,01	Profenofos	0,01	Profluralin	0,01
Profoxydim	0,01	Promecarb	0,01	Prometryn	0,01
Propachlor	0,01	Propachlor OA (Oxalamic Acid)	0,01	Propamocarb	0,01
Propanil	0,01	Propaquizafop	0,01	Propargite	0,01
Propazine	0,01	Propetamphos	0,01	Propham	0,01
Propiconazole	0,01	Propoxur	0,005	Propoxycarbazone	0,01
Propyzamide	0,01	Proquinazide	0,01	Prosulfocarb	0,01
Prothioconazole (Prothioconazole-desthio)	0,01	Prothiophos	0,01	Pymetrozine	0,01
Pyraclostrobin	0,01	Pyraflufen	0,05	Pyraflufen-ethyl	0,01
Pyrazophos	0,01	Pyrethrin I	0,01	Pyrethrin II	0,01
Pyridaben	0,01	Pyridalyl	0,01	Pyridaphenthion	0,01
Pyridate (without hydrolysis)	0,01	Pyrifenox	0,01	Pyrimethanile	0,01
Pyrimidifen	0,01	Pyriofenon	0,01	Pyriproxyfen	0,01
Pyroxsulam	0,01	Quinalphos	0,02 m)	Quinmerac	0,01
Quinoclamine	0,02	Quinoxyfen	0,01	Quintozene	0,005
Quizalofop (free acid)	0,01	Quizalofop-ethyl	0,01	Resmethrine	0,01
Rotenone	0,01	RPA202248	0,01	RPA203328	0,01
Sedaxane	0,01	Sethoxydim	0,01	Silafluofen	0,01
Silthiofam	0,01	Simazin	0,01	Spinetoram	0,01
Spinosad	0,01	Spirodiclofen	0,01	Spiromesifen	0,01
Spirotetramat	0,01	Spirotetramat-enol	0,01	Spiroxamine	0,01
Sulfentrazone	0,01	Sulfotep	0,01	Sulfoxaflor	0,01
Sulprofos	0,01	Sum carbendazim/benomyl	0,01	tau-Fluvalinate	0,01
Tebuconazole	0,03 m)	Tebufenozide	0,01	Tebufenpyrad	0,01
Tecnazene	0,005	Teflubenzuron	0,01	Tefluthrine	0,01
Tembotrion	0,01	Tepraloxydim	0,01	Terbacil	0,01
Terbufos	0,01	Terbufos-sulfon	0,01	Terbufos-sulfoxide	0,01
Terbumeton	0,01	Terbutryne	0,01	Terbutylazin-desethyle	0,01
Terbutylazine	0,01	Tetrachlorvinphos	0,01	Tetraconazole	0,01
Tetradifon	0,005	Tetramethrine	0,01	Tetrasul	0,01
TFNA	0,01	TFNG	0,01	Thiabendazole	0,01
Thiacloprid	0,01	Thiamethoxam	0,02 m)	Thiobencarb	0,01
Thiodicarb	0,01	Thiofanox	0,05	Thiofanox-sulfoxide	0,01
Thiometon	0,01	Thiometon-sulfon	0,01	Thiometon-sulfoxid	0,01
Thiophanat-methyl	0,01	Tolclofos-methyl	0,01	Tolylfluanide	0,01
Tralkoxydim	0,01	Transfluthrine	0,01	Triadimefon	0,01
Triadimenol	0,01	Triallate	0,01	Triasulfuron	0,01
Triazamat	0,01	Triazophos	0,01	Trichlorfon	0,01
Trichloronate	0,01	Triclopyr	0,01	Tricyclazole	0,01

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REPORT

Order **3189665** Ashwagndha
Sample no. **713625**

Method: EN 15662 : 2018-05 (mod.), Unit: mg/kg

Parameter	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*	*Parameter*	*Limit of quanti-fication*
Tridemorph	0,01	Trifloxystrobin	0,01	Triflumizole	0,01
Triflumuron	0,01	Trifluralin	0,01	Triflusulfuron-methyl	0,01
Triforine	0,01	Trinexapac	0,02	Trinexapac-ethyl	0,01
Triticonazole	0,01	Tritosulfuron	0,01	Uniconazole	0,01
Valifenalate	0,01	Vamidothion	0,01	Vinclozolin	0,01
Warfarin	0,01	Zoxamide	0,01	1-Naphthylacetic acid	0,05
1-Naphthylacetic amide	0,01	2-hydroxypropoxycarbazone	0,01	2-Naphtoxyacetic acid	0,01
2-Phenylphenol	0,01	2,4-D (free acid)	0,01	2,4-DB (free acid)	0,01
2,4-Dimethylphenylformamide	0,01	2,4,5-T (free acid)	0,01	3-Hydroxy-Carbofuran	0,01
4-Chlorophenoxyacetic acid (4-CPA)	0,01	4,4`-Dibromobenzophenone	0,01	6-hydroxy-Bentazone	0,01
8-hydroxy-Bentazone	0,01				

pm) The limit of detection had to be raised due to insufficient sample material for extraction and analysis
m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantification was increased.

Remark on meptyldinocap: Sum of meptyldinocap and meptyldinocap phenol (2,4-DNMHP) expressed as meptyldinocap (F).By the multi-method only the free acid of the active ingredient is detected.If contents equal or higher than 0.008 mg/kg are detected, a quantitative analysis of the total acid is performed by hydrolysis
Remark to 1-Naphthylacetamide and 1-Naphthylacetic acid:Sum of 1-Naphthylacetamide and 1-Naphthylacetic acid and its Salts, expressed as 1-Naphythlacetic acid.
Remark to Benalaxyl:Benalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers).
Remark to Benthiavalicarb-isopropyl:Benthiavalicarb-isopropyl (KIF-230 R-L) and its enantiomer (KIF-230 S-D) and its diastereomers (KIF-230 S-L and KIF-230 R-D), expressed as benthiavalicarb-isopropyl (A).The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Bifenthrin: Sum of isomers (F).
Remark to Bromoxynil: Bromoxynil and its salts, expressed as bromoxynil.
Remark to Bromuconazole: Sum of diasteroisomers (F).
Remark to Cyflufenamid: Sum of cyflufenamid (Z-isomer) and its E-isomer.
Remark to Cyfluthrin: Cyfluthrin including other mixtures of constituent isomers (sum of isomers) (F).
Remark to Cypermethrin: Cypermethrin including other mixtures of constituent isomers (sum of isomers) (F).
Remark to Dichlorprop:Dichlorprop (Sum of Dichlorprop (including Dichlorprop-P), its Salts, Esters and Conjugates, expressed as Dichlorprop) ®The validated limit of quantification is 0,01 mg/kg. All data below this determination limit are to be interpreted as non-quantifiable traces. The actual content including the bound residues can only be determined via an additional hydrolysis step.
Remark to Diclofop: Sum diclofop-methyl and diclofop acid expressed as diclofop-methyl.By the multi-method only the free acid of the active ingredient is detected.If contents equal or higher than 0.008 mg/kg are detected, a quantitative analysis of the total acid is performed by hydrolysis
Remark to Dicofol: Sum of p, p´ and o,p´ isomers (F).
Remark to Dimethenamid: Dimethenamid including other mixtures of constituent isomers including dimethenamid-P (sum of isomers).
Remark to Dimethomorph: Sum of isomers.
Remark to Diniconazole: Sum of isomers.
Remark to Dinocap: Sum of dinocap isomers and their corresponding phenols expressed as dinocap.
Remark to Emamectin:Emamectin benzoate B1a, expressed as Emamectin.
Remark to Fenpropidin: Sum of fenpropidin and its salts, expressed as fenpropidin (R) (A).
Remark to Fenpropimorph: Sum of isomers (F) (R).
Remark to Fentin:Fentin including its salts, expressed as triphenyltin cation) (F).
Remark to Fenvalerate: Any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate (F) (R).
Remark to Fluoxastrobin:Fluoxastrobin (sum of Fluoxastrobin and its Z-isomer) (R)
Remark to Flurochloridone:Flurochloridone (Sum of cis- and trans- Isomers) (F)
Remark to Formetanate(hydrochloride): Sum of formetanate and its salts expressed as formetanate(hydrochloride).
Remark to HCH-alpha: Hexachlorocyclohexane (HCH), alpha-isomer (F).
Remark to HCH-beta: Hexachlorocyclohexane (HCH), beta-isomer (F).
Remark to HCH-gamma (Lindane): Lindane (Gamma-isomer of hexachlorocyclohexane (HCH)) (F).
Remark to Haloxyfop-ethoxy-ethyl:By the multi-method only the free acid of the active ingredient is detected.If contents equal or higher than 0.008 mg/kg are detected, a quantitative analysis of the total acid is performed by hydrolysis
Remark to Imazalil: Imazalil (any ratio of constituent isomers) (R)
Remark to Imazamox: Sum of imazamox and its salts, expressed as imazamox.
Remark to Indoxacarb: Sumof indoxacarb and its R enantiomer (F).
Remark to Iodosulfuron-methyl-sodium: Sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl.

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REPORT

Order **3189665** Ashwagndha
Sample no. **713625**

Remark to Ioxynil: Sum of Ioxynil, its salts and its esters, expressed as ioxynil (F).By the multi-method only the free acid of the active ingredient is detected.If contents equal or higher than 0.008 mg/kg are detected, a quantitative analysis of the total acid is performed by hydrolysis
Remark to Mandipropamid: Mandipropamid (any ratio of constituent Isomers)
Remark to Mecoprop: Sum of mecoprop-p and mecoprop expressed as mecoprop.
Remark to Metaflumizon: Sum of E- and Z-isomers.
Remark to Metalaxyl (Sum of metalaxyl and metalaxyl-M): Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers).
Remark to Metconazol: Sum of isomers (F).
Remark to Metolachlor: Metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers).
Remark to Mevinphos: Sum of E- and Z-isomers.
Remark to Paclobutrazol: Sum of the isomers.
Remark to Penconazol: Penconazol (Sum of isomers) (F)
Remark to Pencycuron:Pencycuron (sum of pencycuron and pencycuron-PB-amine, expressed as pencycuron).
Remark to Permethrin: Sum of isomers (F).
Remark to Propamocarb:Propamocarb (Sum of propamocarb and its salts, expressed as propamocarb)The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Propiconazol: Sum of the isomers (F).
Remark to Prothioconazole (Prothioconazole-desthio): Prothioconazole-desthio (sum of isomers) (F).
Remark to Resmethrin: Resmethrin including other mixtures of consituent isomers (sum of isomers) (F).
Remark to Spinosad: Spinosad, sum of spinosyn A and spinosyn D (F).
Remark to Spiroxamine: Sum of isomers (A) (R).
Remark to Sulfoxaflor: Sum of isomers.
Remark to Sum Amitraz: Amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz.The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum Carboxin:Carboxin (carboxin plus its metabolites carboxin sulfoxide and oxycarboxin (carboxin sulfone), expressed as carboxin).
Remark to Sum DDT-isomers: Sum of p,p´-DDT, o,p´-DDT, p-p´-DDE and p,p´-TDE (DDD) expressed as DDT (F).
Remark to Sum Flufenacet: Sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent.
Remark to Sum Isoxaflutole: Isoxaflutole (sum of isoxaflutole and its diketonitrile-metabolite, expressed as isoxaflutole)
Remark to Sum MCPA, MCPB: MCPA and MCPB (MCPA, MCPB including their salts, esters and conjugates expressed as MCPA) (R) (F). The residue definition is not fully met as no hydrolysis has taken place in the multi-method.
Remark to Sum Pyridate:Sum of pyridate, its hydrolysis product CL 9673 (6-chloro-4-hydroxy-3-phenylpyridazin) and hydrolysable conjugates of CL 9673 expressed as pyridate).
The residue definition is not fully met as no hydrolysis has taken place in the multi-method.
Remark to Sum Spirotetramat:Spirotetramat and spirotetramat-enol (sum of), expressed as spirotetramat (R)
Remark to Sum acibenzolar-S-methyl and acibenzolar:Sum of acibenzolar-S-methyl and acibenzolar acid (free and conjugated), expressed as acibenzolar-S-methyl. The residue definition is not fully met as no hydrolysis has taken place in the multi-method.
Remark to Sum aldicarb/-sulfon/-sulfoxid: Sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb.
Remark to Sum aldrin, dieldrin: Aldrin and dieldrin combined expressed as dieldrin (F).
Remark to Sum bentazone: Sum of bentazone, its salts and 6-hydroxy (free and conjugated) and 8-hydroxy bentazone (free and conjugated), expressed as bentazone (R).
Remark to Sum bifenazate: Sum of bifenazate plus bifenazate-diazene expressed as bifenazate (F).
Remark to Sum captan and THPI: Sum of captan and THPI, expressed as captan (R) (A).
Remark to Sum carbendazim/benomyl: Sum of benomyl and carbendazim expressed as carbendazim (R).
Remark to Sum carbofuran, 3-hydroxycarbofuran:Sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran (R).
Remark to Sum chloridazon:Chloridazon (R) (sum of chloridazon and chloridazon-desphenyl, expressed as chloridazon).The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum clethodim: Sum of sethoxydim and clethodim including degradation products calculated as sethoxydim.The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum cycloxydim: Cycloxydim including degradation and reaction products which can be determined as 3-(3-thianyl)glutaric acid S-dioxide (BH 517-TGSO2) and/or 3-hydroxy-3-(3-thianyl)glutaric acid S-dioxide (BH 517-5-OH-TGSO2) or methyl esters thereof, calculated in total as cycloxydim.The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum disulfoton: Sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton (F).

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Remark to Sum endosulfan-alpha, -beta, -sulphate: Sum of alpha- and beta-isomers and endosulfan-sulphate expresses as endosulfan (F).
Remark to Sum ethofumesate: Sum of ethofumesate, 2-keto– ethofumesate, open-ring-2-keto-ethofumesate and its conjugate, expressed as ethofumesate.The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum fenamiphos, -sulfoxide, -sulfone: Sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos.
Remark to Sum fenchlorphos: Sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos.
Remark to Sum fipronil, -sulfone (MB 46136): Sum fipronil + sulfone metabolite (MB46136) expressed as fipronil (F).
Remark to Sum flonicamid: Sum of flonicamid, TFNA and TFNG expressed as flonicamid (R).
Remark to Sum folpet and phtalimide: Sum of folpet and phtalimide, expressed as folpet) (R).
Remark to Sum heptachlor, heptachlorepoxide: Sum of heptachlor and heptachlor epoxide expressed as heptachlor (F).
Remark to Sum malathion and malaoxon: Sum of malathion and malaoxon expressed as malathion.
Remark to Sum metazachlor: Sum of metabolites 479M04, 479M08, 479M16, expressed as metazachlor (R).The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum methiocarb, -sulfone, -sulfoxide: Sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb.
Remark to Sum of cis- and trans-chlordane (F) (R): Chlordane (sum of cis- and trans-chlordane)
Remark to Sum oxydemeton-methyl, demeton-S-methyl-sulfon: Sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl.
Remark to Sum parathion-methyl: Sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl.
Remark to Sum phorate: Sum of phorate, its oxygen analogue and their sulfones expressed as phorate.
Remark to Sum phosmet and phosmet-oxon: Phosmet and phosmet oxon expressed as phosmet (R).
Remark to Sum prochloraz: Sum of prochloraz and its metabolites containing the 2,4,6-Trichlorophenol moiety expressed as prochloraz.
Remark to Sum propachlor: Oxalinic derivate of propachlor, expressed as propachlor.
Remark to Sum propoxycarbazone: Propoxycarbazone, its salts and 2-hydroxypropoxycarbazone expressed as propoxycarbazone.
Remark to Sum pyraflufen-ethyl: Pyraflufen-ethyl (A) (Sum of pyraflufen-ethyl and pyraflufen, expressed as pyraflufen-ethyl).
Remark to Sum quintozene and pentachloro-aniline: Sum of quintozene and pentachloro-aniline expressed as quintozene (F).
Remark to Sum tepraloxydim:Sum of tepraloxydim and its metabolites that can be hydrolysed either to the moiety 3-(tetrahydro-pyran-4-yl)-glutaric acid or to the moiety 3-hydroxy-(tetrahydro-pyran-4-yl)-glutaric acid, expressed as tepraloxydim.The sum parameter takes into account the active metabolites, which are detectable safely using the specified method. The actual content may be higher and can only be determined with a single method.
Remark to Sum tolylfluanid: Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid (F) (R).
Remark to Sum triflumizole and FM 6-1: Triflumizole and metabolite FM-6-1(N-(4-chloro-2-trifluoromethylphenyl)-n-propoxyacetamidine), expressed as Triflumizole (F).
Remark to Tralkoxydim: Sum of the constituent isomers of tralkoxydim.
Remark to Trinexapac: Sum of trinexapac (acid) and its salts, expressed as trinexapac.
Remark to Trinexapac:Trinexapac (Sum of Trinexapac (-acid) and its Salts, expressed as Trinexapac)
Remark to hydrolysis-relevant substances without carrying out the hydrolysis module:The validated limit of quantification is 0,01 mg/kg. All data below this determination limit are to be interpreted as non-quantifiable traces. The actual content including the bound residues can only be determined via an additional hydrolysis step.
Remark to sum fenthion:Fenthion and its oxigen analogue, their sulfoxides and sulfone expressed as parent (F).

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