

Dr.-Hell-Str. 6, 24107 Kiel, Germany  
www.agrolab.de

**AGROLAB LUFA** Dr.-Hell-Str. 6, 24107 Kiel

Dr. Biomaster Ltd.  
68 Rhodopi St, 2.foor  
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BULGARIEN

Date 20.01.2021  
Customer no. 10056233

## REPORT 2837319 - 896335

Order **2837319**  
Sample no. **896335**  
Sample acceptance **14.01.2021**  
Sample taker **Client**  
Customer sample description **Immune Modulator 40 % Extract, 90 caps x 510mg - LOT: 23L  
Immune Modulator 40 % Extract, 360 caps x 510mg - LOT: 12L**  
Packaging **plastic bag**

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:

Pesticide	Unit	Result	Declaration	Substance	Method
Sum carbendazim/benomyl	mg/kg	0,059		OM	EN 15662 : 2018 (mod.)
Phthalimide	mg/kg	0,029		OM	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)

### Trace elements / Heavy metals / Halogenides

Element	Unit	Result	Declaration	Substance	Method
Cadmium (Cd)	mg/kg	0,17		OM	DIN EN 17053 : 2018-03 / DIN EN 15763 : 2010-04 (mod.)
Lead (Pb)	mg/kg	0,27		OM	DIN EN 17053 : 2018-03 / DIN EN 15763 : 2010-04 (mod.)
Mercury (Hg)	mg/kg	<0,02		OM	DIN EN 13806 : 2002-11
Arsenic (As)	mg/kg	0,23		OM	DIN EN 17053 : 2018-03 / DIN EN 15763 : 2010-04 (mod.)

### Microbiological examinations

Examination	Unit	Result	Declaration	Substance	Method
Aerobic mesophilic plate count (total plate count)	cfu/g	740		OM	DIN EN ISO 4833-2 : 2014-05
Enterobacteriaceae	cfu/g	<1,0 (LOD)		OM	ISO 21528-2 : 2017-06
Coliform bacteria	cfu/g	<1,0 (LOD)		OM	ISO 4832 : 2006-02
Escherichia coli	in 1 g	not detected		OM	DIN EN ISO 16649-3 : 2018-01
Staphylococci, coagulase-positive	/g	<3,0		OM	ISO 6888-3 : 2005-07 (mod.)
Yeasts	cfu/g	<10 (LOD)		OM	ISO 21527-2 : 2008-07
Moulds	cfu/g	150		OM	ISO 21527-2 : 2008-07
Clostridium spp., sulfite reducing	cfu/g	<1 (LOD)		OM	ISO 15213 : 2003-05
Salmonella spp. in 25g		not detected		OM	ISO 6579-1 : 2017-02

### Radionuclides

Radionuclide	Unit	Result	Declaration	Substance	Method
Cs-134	Bq/kg	<100		OM	E-gamma-SPEKT-LEBM-01 : 1997-05
Cs-137	Bq/kg	<100		OM	E-gamma-SPEKT-LEBM-01 : 1997-05

m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation 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 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 Sum carbendazim/benomyl: Sum of benomyl and carbendazim expressed as carbendazim (R).

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**Remark to Clostridia spp., sulfite-reducing:**

The result refers to the spores of Clostridia spp. sulfite-reducing.

**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).

Start of testing: 14.01.2021

End of testing: 20.01.2021

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 Herr Dr. Matthias Reutter, Tel. 0431/1228-230**  
**officially approved foodchemist**  
**customer relation management food**

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

Method: calculated, Unit: mg/kg			
Parameter	Limit of Parameter quanti- fication	Limit of Parameter quanti- fication	Limit of quanti- fication
Sum aldrin, dieldrin	Sum Chlordane	Sum DDT-isomers	
Sum endosulfan-alpha, -beta, -sulfat	Sum heptachlor, heptachlorepoxyde	Sum Isoxaflutole	
Sum of malathion and malaoxon	Sum quintozone and pentachloro-aniline		

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Method: DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.), Unit: mg/kg

Parameter	Limit of Parameter quantification	Parameter	Limit of Parameter quantification	Parameter	Limit of Parameter quantification
Alachlor	0,02	Aldrin	0,005	Ametryn	0,01
Anthraquinone	0,02	Atrazine	0,01	Azinphos-ethyl	0,01
Azinphos-methyl	0,01	Azoxystrobin	0,01	Benalaxyl	0,01
Benfluralin	0,01	Bifenoxy	0,01	Bifenthrin	0,01
Biphenyl (Diphenyl)	0,01	Bitertanol	0,01	Boscalid	0,01
Bromacil	0,01	Bromfenvinfos	0,01	Bromophos-ethyl	0,01
Bromophos-methyl	0,01	Bromopropylate	0,01	Bupirimate	0,01
Buprofezin	0,01	Cadusafos	0,01	Captafol	0,05
Captan	0,02	Carbophenothion	0,01	Carbosulfan	0,01
Carfentrazone-ethyl	0,01	Chinomethionate	0,01	Chlordane alpha	0,005
Chlordane gamma	0,005	Chlordane oxy	0,005	Chlorfenson	0,01
Chloridazon	0,05	Chlormephos	0,01	Chlorobenzilate	0,01
Chlorobuphame	0,02	Chloroneb	0,01	Chloroxuron	0,01
Chlorphenvinphos	0,01	Chlorpropham	0,01	Chlorpyrifos	0,01
Chlorpyrifos-methyl	0,01	Chlorthalonil	0,01	Chlorthion	0,01
Chlorthiophos	0,01	Chlozolinate	0,01	cis-Nonachlor	0,01
Coumaphos	0,01	Cyanazin	0,01	Cyanofenphos	0,01
Cyfluthrin	0,01	Cypermethrin	0,01	Cyproconazole	0,01
Cyprodinil	0,01	Deltamethrin	0,01	Desethylatrazine	0,01
Desisopropylatrazine	0,01	Desmetyrn	0,01	Diallat	0,02
Diazinon	0,01	Dichlobenil	0,01	Dichlofenthione	0,01
Dichlofluanid	0,01	Dichlorvos	0,01	Diclobutrazole	0,01
Dicloran	0,01	Dicofof	0,02	Dieldrin	0,005
Difenoconazole	0,01	Diflufenican	0,01	Dimethachloro	0,01
Dimethenamide	0,01	Dimethomorph	0,01	Diniconazole	0,01
Dioxathion	0,01	Diphenylamine	0,01	Ditalimfos	0,01
Edifenphos	0,01	Endosulfan alpha	0,005	Endosulfan beta	0,005
Endosulfansulfat	0,005	Endrin	0,005	EPN	0,01
Ethion	0,01	Ethoprophos	0,01	Etrimfos	0,01
Famoxadone	0,01	Famphur	0,01	Fenarimole	0,01
Fenchlorphos	0,01	Fenhexamid	0,01	Fenitrothion	0,01
Fenpropathrine	0,01	Fenpropimorph	0,01	Fenvalerate	0,01
Flucythrinat	0,01	Fludioxonil	0,01	Flufenacet	0,01
Flusilazole	0,01	Flutriafol	0,01	Folpet	0,01
Fonofos	0,01	Formothion	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	Heptachlorepoxyde-cis	0,005
Heptachlorepoxyde-trans	0,005	Heptenophos	0,01	Hexachlorobenzene	0,005
Hexaconazole	0,01	Hexazinone	0,01	Iprodion	0,01
Isodrin	0,01	Isofenphos	0,01	Kresoxim-methyl	0,01
lambda-Cyhalothrine	0,01	Leptophos	0,01	Malaaxon	0,01
Malathion	0,01	Mecarbame	0,01	Metalaxyl (Sum of Metalaxyl and Metalaxyl-M)	0,01
Metazachlor	0,01	Metconazole	0,01	Methamidophos	0,02
Methidathion	0,01	Methiocarb	0,01	Methoxychlor	0,005
Metolachlor	0,01	Metribuzin	0,01	Mevinphos	0,01
Mirex	0,005	Myclobutanil	0,01	Nitrofen	0,005
Nitrothal-isopropyl	0,01	o,p-DDD	0,005	o,p-DDE	0,005
o,p-DDT	0,005	Oxadixyle	0,01	Paclobutrazol	0,01
Paraoxon-ethyl	0,01	Paraoxon-methyl	0,01	Parathion-ethyl	0,01
Parathion-methyl	0,01	Penconazol	0,01	Pendimethalin	0,01
Pentachloro-aniline	0,01	Pentachlorobenzene	0,005	Permethrin	0,01
Phosalone	0,01	Phosmet	0,01	Phosphamidon	0,01
Phthalimide	0,02	Piperonylbutoxide	0,01	Piperophos	0,01
Pirimicarb	0,01	Pirimiphos-ethyl	0,01	Pirimiphos-methyl	0,01
p,p-DDD	0,005	p,p-DDE	0,01	p,p-DDT	0,005
Procymidone	0,01	Profenofos	0,01	Prometryn	0,01
Propachlor	0,01	Propargite	0,02	Propazine	0,01
Propetamphos	0,01	Propham	0,01	Propiconazole	0,01
Propoxur	0,01	Propyzamide	0,01	Prosulfocarb	0,01
Prothiophos	0,01	Pyrazophos	0,01	Pyridaphenthion	0,01
Pyrifenoxy	0,01	Pyrimethanil	0,01	Quinalphos	0,01
Quintozene	0,005	Resmethrine	0,01	Silthiofam	0,01
Simazin	0,01	Sulfotep	0,01	tau-Fluvalinate	0,01
Tebuconazole	0,01	Tebuufenpyrad	0,01	Tecnazene	0,005
Tefluthrine	0,01	Terbufos	0,01	Terbutryne	0,01
Terbutylazine	0,01				

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Method: DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.), Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
		Tetrachlorvinphos	0,01	Tetradifon	0,005
Tetramethrine	0,01	Thiometon	0,01	Tolclofos-methyl	0,01
Tolyfluanide	0,01	trans-Nonachlor	0,01	Triadimefon	0,01
Triadimenol	0,01	Triallate	0,01	Triazophos	0,01
Trichlorfon	0,01	Trichloronate	0,01	Trifluralin	0,01
Vinclozolin	0,01	2-Phenylphenol	0,01		
Method: EN 15662 : 2018 (mod.), Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Acephate	0,01	Acetamiprid	0,01	Aldicarb	0,01
Aldicarb-sulfon	0,01	Aldicarb-sulfoxide	0,01	Amidosulfone	0,01
Amitraz	0,01	Bendiocarb	0,01	Bensulfuron-methyl	0,01
Bentazone	0,01	Bromoxynil	0,01	Carbaryl	0,01
Carbofuran	0,01	Chlorsulfuron	0,01	Cinosulfuron	0,01
Clethodim	0,01	Clothianidin	0,01	Cyazofamid	0,01
Cymoxanil	0,01	Demeton-S-methyl	0,01	Desmedipham	0,01
Dichlorprop	0,01	Diclotophos	0,01	Diethofencarb	0,01
Diflubenzuron	0,01	Dimethoate	0,01	Dinoseb	0,01
Disulfoton	0,01	Disulfoton-sulfona	0,01	Disulfoton-sulfoxide	0,01
Diuron	0,01	Dodin	0,01	Ethiofencarb	0,01
Ethiofencarb-sulfon	0,01	Ethiofencarb-sulfoxide	0,01	Fenoxaprop-P-ethyle	0,01
Fenoxycarb	0,01	Fenpropidin	0,01	Fenthion	0,01
Fipronil	0,002	Flazasulfuron	0,01	Florasulam	0,01
Fluazifop	0,01	Fluazifop-butyle	0,01	Fluazinam	0,01
Flufenoxuron	0,01	Furathiocarb	0,01	Haloxypop	0,01
Haloxypop methyl	0,01	Haloxypop-ethoxy-ethyl	0,01	Hexaflumuron	0,01
Imazalil	0,01	Imidacloprid	0,01	Iodosulfuron-methyl-sodium	0,01
Ioxynil	0,01	Iprovalicarb	0,01	Isoproturon	0,01
Isoxaflutole	0,02	Linuron	0,01	MCPA	0,01
MCPB	0,01	Mecoprop	0,01	Mefenpyr-diethyl	0,01
Mepanipyrim	0,01	Metamitron	0,01	Methabenzthiazuron	0,01
Methomyl	0,01	Methoxyfenozide	0,01	Metobromuron	0,01
Metosulam	0,01	Metoxuron	0,01	Metsulfurone-methyl	0,01
Monocrotophos	0,01	Monolinuron	0,01	Nicosulfuron	0,02
Omethoate	0,01	Oxamyl	0,01	Oxydemeton-methyl	0,01
Pencycuron	0,01	Phenmedipham	0,01	Phorate	0,01
Pirimisulfuron-methyle	0,01	Prochloraz	0,01	Propamocarb	0,01
Propaquizafop	0,01	Propoxycarbazone	0,01	Prosulfuron	0,01
Pymetrozine	0,01	Pyrethrins	0,01	Pyridate	0,01
Quinmerac	0,01	Quizalofop, incl. quizalofop-P	0,01	Rimsulfuron	0,01
Rotenone	0,01	Sethoxydim	0,01	Spinosad	0,01
Spiroxamine	0,01	Sulcotrione	0,01	Sum carbendazim/benomyl	0,01
Tebufenozide	0,01	Teflubenzuron	0,01	Thiabendazole	0,01
Thiacloprid	0,01	Thiamethoxam	0,01	Thifensulfurone-methyl	0,01
Thiodicarb	0,01	Thiofanox	0,01	Thiofanox-sulfon	0,01
Thiofanox-sulfoxide	0,01	Thiophanat-methyl	0,01	Triasulfuron	0,01
Tricyclazole	0,01	Triflursulfuron-methyl	0,01	Triforine	0,01
Trinexapac-ethyl	0,01	Vamidothion	0,01	2,4-D	0,01
2,4-DB	0,01	3-Hydroxy-Carbofuran	0,01		

m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation was increased.

Remark to 2,4-D: Sum of 2,4-D, its salts, its esters and its conjugates, expressed as 2,4-D. 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 Dinoseb: Dinoseb (Sum of Dinoseb, its salts, dinoseb acetate and binapacryl, expressed as Dinoseb). 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 Benalaxyl: Benalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers).

Remark to Bifenthrin: Sum of isomers (F).

Remark to Bromoxynil: Bromoxynil and its salts, expressed as bromoxynil.

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 Deltamethrin: Deltamethrin (cis-deltamethrin) (F)

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Remark to Dichlorprop: Sum of dichlorprop (including dichlorprop-P), its salts, esters and conjugates, expressed as dichlorprop. 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 Dicofof: 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 Fenpropidin: Sum of fenpropidin and its salts, expressed as fenpropidin (R) (A).

Remark to Fenpropimorph: Sum of isomers (F) (R).

Remark to Fenvalerate: Any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate (F) (R).

Remark to Fluazifop-butyl: 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 Fluazifop: Fluazifop-P (sum of all the constituent isomers of fluazifop, its esters and its conjugates, expressed as fluazifop). 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 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 Haloxyfop-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 Haloxyfop: Sum of haloxyfop, its esters, salts and conjugates expressed as haloxyfop (sum of the R- and S- isomers at any ratio) (F) (R). 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 Iodosulfuron-methyl-sodium: Sum of iodosulfuron-methyl and its salts, expressed as iodosulfuron-methyl.

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 MCPA: 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 MCPB: 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 Mecoprop: Sum of Mecoprop-p and Mecoprop expressed as Mecoprop.

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 Paclbutrazol: Sum of the isomers.

Remark to Penconazol: Penconazol (Sum of isomers) (F)

Remark to Permethrin: Sum of isomers (F).

Remark to Propamocarb: Sum of propamocarb and its salts, expressed as propamocarb (R).

Remark to Propaquizafop: 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 Propiconazol: Sum of the isomers (F).

Remark to Quizalofop: Quizalofop (sum of quizalofop, its salts, its esters (including propaquizafop) and its conjugates, expressed as quizalofop (any ratio of constituent isomers)) 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 Resmethrin: Resmethrin including other mixtures of constituent 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 Sum Chlordane: Sum of cis-Chlordane and trans-Chlordane (F)(R).

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 Isoxaflutole: Isoxaflutole (sum of isoxaflutole and its diketonitrile-metabolite, expressed as isoxaflutole)

Remark to Sum Aldrin, dieldrin: Aldrin and dieldrin combined expressed as dieldrin (F).

Remark to Sum carbendazim/benomyl: Sum of benomyl and carbendazim expressed as carbendazim (R).

Remark to Sum endosulfan-alpha, -beta, -sulphate: Sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan (F).

Remark to Sum heptachlor, heptachlorepoxyde: 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 quintozone and pentachloro-aniline: Sum of quintozone and pentachloro-aniline expressed as quintozone (F).

Remark to 2,4-DB: Sum of 2,4-DB, its salts, its esters and its conjugates, expressed as 2,4-DB (R). 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

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