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- **MANUFACTURER ACCREDITATION(S):**

- **BLEND:** IMMUNITY*
- **LOT:** 14566
- **PURPOSE:** Certificate of Analysis (COA)
- **MANUFACTURED:** USA

cGMP Certified Good Manufacturing Practices

FDA REGISTERED

NSF

ISO 9001 2015

usp

Pharma Natural, Inc.
14500 NW 60th Ave, Building 7F, Fl 33014 USA
Ph.:305 231 8877 Fax.:866 526 4796
www.pharmanatural.com

Pharma Natural® Natural Health Solutions

CERTIFICATE OF ANALYSIS

Product Name:	Immunity	CoA Number:	MEU001-2023
Presentation:	60 Capsules	Bulk Number:	BK3308
Serving Size:	1 Capsules	Manufacture Date:	05/2023
Servings Per Unit:	60	Expiration Date:	05/2026
Lot Number:	14566	Testing Completed	05/18/2023
P.O:	MEU-BIO-001		

Physical Analysis

Test	Specification	Result	Method
Appearance and Color	Veggie Capsule "00" Clear filled with light brown powder	Pass	Visual, SOP 024
Weight (mg)	710 mg ± 10 %	724 mg	USP<2091>, SOP L047
Disintegration	< 30 min	13 min	USP<2040>, SOP L048

Chemical Analysis

Active Ingredients per Capsule	Composition	Specification	Assay Result	Method
Vitamin D3 (as cholecalciferol) 5000 IU	125 mcg	(113 -206.3) mcg	134.19 mcg	HPLC USP<621> STP 005
Vitamin B12 (as cyanocobalamin)	1000 mcg	(900 - 1500) mcg	1060 mcg	HPLC USP<621> STP 006
Zinc (as zinc picolinate)	15 mg	(13.5 - 188) mg	Present by input	Input by batch record review
Antrodia Mushroom (Antrodia cinnamomea) (fruiting body)	100 mg	r > 0.90 Correlation to Standard	Present by input	Input by batch record review
Chaga Mushroom (Inonotus obliquus) (fruiting body)	90 mg	r > 0.90 Correlation to Standard	Present by input	Input by batch record review
Lion's Mane Mushroom (Hericium erinaceus) (fruiting body)	100 mg	r > 0.90 Correlation to Standard	Present by input	Input by batch record review
Nicotinamide Mononucleotide (NMN)	100 mg	r ≥ 0.90 Correlation to Standard	Present by input	Input by batch record review

Heavy Metals

Test	Specification (ppm) (mcg/g)	Results (ppm) (mcg/g)	Method
Lead (Pb)	≤ 0.5	0.0007	ICP-MS USP<2232>, SOP L052
Arsenic (As)	≤ 1.5	0.0126	ICP-MS USP<2232>, SOP L052
Cadmium (Cd)	≤ 0.5	0.0002	ICP-MS USP<2232>, SOP L052
Mercury (Hg)	≤ 1.5	0.0270	ICP-MS USP<2232>, SOP L052

Microbiological Analysis

Test	Specification	Result	Method
Rapid Aerobic Count Plate	≤10,000 cfu/g	<10,000 cfu/g	USP-NF<2021>, SOP L056
Rapid Yeast & Mold Count Plate	≤1,000 cfu/g	<1,000 cfu/g	USP-NF<2021>, SOP L056
Escherichia coli	Absence / 10g	Negative	USP-NF<2022>, SOP L056
Salmonella spp.	Absence / 10g	Negative	USP-NF<2022>, SOP L056

Prepared by Wilmer Torres
QUALITY SPECIALIST
05/19/2023
DATE

Approved by Rosa Lydia Solis
QUALITY ASSURANCE MANAGER
05/19/2023
DATE

FORM 25.1

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Vitamin D3 (*Cholecalciferol*)
- **LOT:** NIGVITD31-2201V007101
- **PURPOSE:** Ingredient COA
- **ORIGIN:** China

Pharma Natural, Inc.
14500 NW 60th Ave, Building 7F, Fl 33014 USA
Ph.:305 231 8877 Fax.:866 526 4796
www.pharmanatural.com

CERTIFICATE OF ANALYSIS

The following information is a direct translation of the information provided to Pharma Natural Inc. from the supplier of this product.
This Certificate of Analysis should be used for informational purposes and is not intended as a Substitute for strict quality control analysis by the purchaser of this product

Product Name:	Vitamin D3 100,000 IU/g	Manufacture Date:	Jan 2022
Presentation:	Powder	Expiration Date:	Jan 2025
Botanical Name:	N/A	Country of Origin:	China
Batch Number:	NIGVITD31-2201V007101		

Physical Characteristic			
Items	**Specification**	**Results**	**Method**
Appearance	White to Off-white powder	Pass	Visual, SOP 024
Odor	Characteristic	Characteristic	Organoleptic, SOP 024
Taste	Characteristic	Characteristic	Organoleptic, SOP 024
Particle Size	40 Mesh	Pass	USP-NF <786>
Loss on drying	> 5.0%	4.60%	USP<731>, SOP L066

Chemical Characteristic			
Items	**Specification**	**Results**	**Method**
Vitamin D3 (100,000) IU	NLT 100,000 IU/g	100,000 IU/g	HPLC USP<621>, STP 005
Heavy Metals	≤ 10 ppm	< 10 ppm	ICP -MS USP<730>, STP 015
Arsenic (As)	≤ 2.0 ppm	< 0.04 ppm	ICP -MS USP<730>, STP 015
Lead (Pb)	≤ 2.0 ppm	< 0.04 ppm	ICP -MS USP<730>, STP 015
Cadmium (Cd)	≤ 1.0 ppm	Not Detected	ICP -MS USP<730>, STP 015
Mercury (Hg)	≤ 0.1 ppm	Not Detected	ICP -MS USP<730>, STP 015

Microbiological Test			
Items	**Specification**	**Results**	**Method**
Rapid Aerobic Count Plate	≤ 1,000 cfu/g	< 10 cfu/g	USP-NF<2021>, SOP L056
Rapid Yeast & Mold Count Plate	≤ 100 cfu/g	< 10 cfu/g	USP-NF<2021>, SOP L056
Escherichia coli	Absence / 10g	Negative	USP-NF<2022>, SOP L056
Salmonella spp	Absence / 10g	Negative	USP-NF<2022>, SOP L056
Staphylococcus aureus	Absence / 10g	Negative	USP-NF<2022>, SOP L056

General Status		
Items	**Specification**	**Results**
GMO Free	GMO Free	GMO Free
Non-Irradiation	Non-Irradiation	Non-Irradiation

Conclusion	**Conform with specification**
Packing & Storage	Packed and storage in container in a cool and dry place away from light, water, humidity, and extreme variations in temperature

Prepared by Wilmer Torres
QUALITY SPECIALIST
03/01/2024

Approved by Rosa Lydia Solis
QUALITY ASSURANCE MANAGER
03/01/2024

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Vitamin B12 (*Cyanocobalamin*)
- **LOT:** C210703F
- **PURPOSE:** Ingredient COA
- **ORIGIN:** China

YUXING BIOTECHNOLOGY(GROUP) CO.,LTD.

地址：河北省邢台市宁晋县西城区 Add.:Xicheng District, Ningjin County,Xingtai City, Hebei Province, China

电话 Tel: +86-319-5808191 Fax: +86-319-5808191,+86-319-5801619

Certificate of analysis

成品检验报告单

(USP)

Document number 编号：BG-C008-04-01

Product name 产品名称	Cyanocobalamin(Vitamin B12) 氰钴胺（维生素 B12）	Mfg.Date 生产日期	Jul.03,2021 2021 年 07 月 03 日
Batch No. 批号	C210703F	Cert.Date 报告日期	Jul.13,2021 2021 年 07 月 13 日
Packing 包装规格	1kg/tin 1kg/桶	Exp.Date 失效日期	Jul.02,2026 2026 年 07 月 02 日
Batch Quantity 批数量	48.0kg	According as 检测依据	USP 43 and in house standard 美国药典 43 版和内控标准
Test items 检测项目	Specifications 规格	Results 检测结果	Test methods 检测方法
Characters 性状	Dark red crystals or amorphous or crystalline red powder. 深红色结晶或非结晶性或结晶性红色粉末	Complies 符合要求	Visual method 目视法
Identification A 鉴别 A	UV: The absorption spectrum exhibits maxima at 278±1nm,361±1nm,and550±2nm.在 278±1nm、361±1nm 与 550±2nm 的波长处有最大吸收。	Complies 符合要求	USP monograph 美国药典专论
	A_{361nm}/A_{278nm} : 1.70～1.90 A_{361nm}/A_{550nm} : 3.15～3.40	1.86 3.26	
IdentificationB 鉴别 B	Cobalt: Meets USP requirements 钴原子：符合美国药典要求	Complies 符合要求	USP monograph 美国药典专论
IdentificationC 鉴别 C	HPLC:The retention time of the major peak of the sample solution corresponds to that of the standard solution.样品的主峰保留时间与标准溶液一致。	Complies 符合要求	USP monograph 美国药典专论
Loss on drying 干燥失重	≤10.0%	3.7%	USP monograph/USP<731> 美国药典专论/附录<731>
Assay 含量	97.0%～102.0%	99.0%	USP monograph 美国药典专论
Related substances 有关物质	Total impurities 总杂质≤3.0 %	1.6%	USP monograph 美国药典专论
	7β,8β-Lactocyanocobalamin ≤ 1.0 %	0.7%	
	34-Methylcyanocobalamin ≤2.0 %	0.2%	
	8-Epi-cyanocobalamin ≤1.0 %	0.3%	
	Any other unidentified impurity 其它任一未鉴定杂质和 and 50-Carboxycyanocobalamin、32-Carboxycyanocobalamin ≤0.5%	0.2%	
Acetone 丙酮	≤5000ppm	Not detected 未检出	In house/(GC) 内控 SOP-QC-001-04-06
The total aerobic microbial count 需氧菌总数	≤1000 cfu/g	40cfu/g	ChP 2020 <1105> 中国药典<1105>
The total combined yeasts/mould count 酵母菌和霉菌总数	≤100 cfu/g	<10cfu/g	ChP 2020 <1105> 中国药典<1105>

检验专用章

Conclusion : The product complies with the specification of USP 43 and in house standard.
结 论 : 产品符合美国药典 43 版和内控标准

Product Usage : ☐For Drug Use ☑Not for Drug Use
产 品 用 途: ☐药品用途 ☑非药品用途

Responsible person 负责人		Reviewed by 复核人		Reporter 报告人	

BH 1431
12g 12672

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Vitamin B12 (*Cyanocobalamin*)
- **LOT:** C210703F
- **PURPOSE:** Ingredient COA
- **ORIGIN:** China

玉星生物（集团）股份有限公司
YUXING BIOTECHNOLOGY(GROUP) CO.,LTD.
地址：河北省邢台市宁晋县西城区 Add.:Xicheng District, Ningjin County,Xingtai City, Hebei Province, China
电话 Tel: +86-319-5808191 Fax: +86-319-5808191,+86-319-5801619

Certificate of analysis
成品检验报告单
Addition item (增加项目)

Document number 编号：BG-C034-04-01

Product name 产品名称	Cyanocobalamin(Vitamin B_{12}) 氰钴胺（维生素 B_{12}）	Mfg.Date 生产日期	Jul.03,2021 2021 年 07 月 03 日
Batch No. 批号	C210703F	Cert.Date 报告日期	Dec.31,2021 2021 年 12 月 31 日
Packing 包装规格	1kg/tin 1kg/桶	Exp.Date 失效日期	Jul.02,2026 2026 年 07 月 02 日
Batch Quantity 批数量	48.0kg		
According as 检测依据	☑《Vitamin B_{12}（Cyanocobalamin）Quality Standard》 ☑《维生素 B_{12}（氰钴胺）质量标准》		☐Customer standard ☐客户标准

Test items 检测项目	Specifications 规格	Results 检测结果	Test methods 检测方法
Lead 铅	≤0.5 mg/kg	Not detected 未检出	Atomic absorption Spectrometry 原子吸收分光光度法
Cadmium 镉	≤0.2 mg/kg	Not detected 未检出	
Mercury 汞	≤0.1 mg/kg	Not detected 未检出	
Arsenic 砷	≤1.0 mg/kg	Complies 符合要求	ChP 2020 <0822> 中国药典 2020 版 <0822>
E.coli 大肠埃希菌	Absence（cfu/10g） 不得检出（cfu/10g）	Complies 符合要求	ChP 2020 <1106> 中国药典 2020 版 <1106>
Salmonella 沙门菌	Absence（cfu/10g） 不得检出（cfu/10g）	Complies 符合要求	ChP 2020 <1106> 中国药典 2020 版 <1106>
Staphylococcus Aureus 金黄色葡萄球菌	Absence（cfu/g） 不得检出（cfu/g）	Complies 符合要求	ChP 2020 <1106> 中国药典 2020 版 <1106>
Bile-Tolerant Gram-Negative Bacteria 耐胆盐革兰阴性菌	Absence（cfu/g） 不得检出（cfu/g）	Complies 符合要求	ChP 2020 <1106> 中国药典 2020 版 <1106>

Conclusion : The product complies with the specification of ☐customer standard ☑in house standard.
结 论 ： 产品符合 ☐客户标准 ☑内控标准

Product Usage : ☐For Drug Use ☑Not for Drug Use
产 品 用 途： ☐药品用途 ☑非药品用途

Responsible person 负责人		Reviewed by 复核人		Reporter 报告人	刘志敬

备注：1.本报告单项目可根据客户需求进行增加或删除，仅保留客户所需标准。
2.“★”项目表示该结果为依据历史检验统计结果出具，该批产品未检验该项，但公司保证其结果的符合性。
Note: 1.the items listed in the CoA can be added or deleted according to customers'requirement
2.“★” items indicates that the results are issued based on historical analysis result statistics, the item was not tested for the batch of product, but we ensure the compliance of the result.

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Zinc (*Zinc picolinate*)
- **LOT:** ZP20210302
- **PURPOSE:** Ingredient COA
- **ORIGIN:** China

Pharma Natural, Inc.
14500 NW 60th Ave, Building 7F, Fl 33014 USA
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CERTIFICATE OF ANALYSIS

The following information is a direct translation of the information provided to Pharma Natural Inc. from the supplier of this product.
This Certificate of Analysis should be used for informational purposes and is not intended as a Substitute for strict quality control analysis by the purchaser of this product

Product Name:	ZINC PICOLINATE	Manufacture Date:	Mar 18, 2021
Presentation:	Powder	Expiration Date:	Mar 03-01-2025
Botanical Name:	N/A	Country of Origin:	CHINA
Batch Number:	ZP20210302		

Physical Characteristic			
Items	**Specification**	**Results**	**Method**
Appearance	White powder	Pass	Visual, SOP 024
Particle Size	90% through 80 Mesh	Pass	USP-NF <786>
Loss on drying	≤ 2.5%	0.80%	USP<731>, SOP L066
pH	5.0 - 8.0	7.0	USP<281>

Chemical Characteristic			
Items	**Specification**	**Results**	**Method**
Identification	≥ 98.0%	102.20%	FTIR USP <197>, SOP L042
Zinc (as zinc picolinate)	20% - 23%	29.00%	Titration
Arsenic (As)	≤ 3 ppm	< 3 ppm	ICP -MS USP<730>, STP 015
Lead (Pb)	≤ 1 ppm	< 1 ppm	ICP -MS USP<730>, STP 015
Cadmium (Cd)	≤ 1 ppm	< 1 ppm	ICP -MS USP<730>, STP 015
Mercury (Hg)	≤ 0.3 ppm	< 0.3 ppm	ICP -MS USP<730>, STP 015

Microbiological Test			
Items	**Specification**	**Results**	**Method**
Rapid Aerobic Count Plate	≤ 1,000 cfu/g	20 cfu/g	USP-NF<2021>, SOP L056
Rapid Yeast & Mold Count Plate	≤ 100 cfu/g	20 cfu/g	USP-NF<2021>, SOP L056
Escherichia coli	Absence / 10g	Negative	USP-NF<2022>, SOP L056
Salmonella spp	Absence / 10g	Negative	USP-NF<2022>, SOP L056

General Status		
Items	**Specification**	**Results**
GMO Free	GMO Free	GMO Free
Non-Irradiation	Non-Irradiation	Non-Irradiation

Conclusion	**Conform with specification**
Packing & Storage	Packed and storage in container in a cool and dry place away from light, water, humidity, and extreme variations in temperature

Prepared by
Wilmer Torres
QUALITY SPECIALIST
03/01/2024

Approved by
Rosa Lydia Solis
QUALITY ASSURANCE MANAGER
03/01/2024

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- **INGREDIENT ACCREDITATION(S):**

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Antrodia (*Antrodia camphorata*) Mushroom
- **LOT:** L22020805P
- **PURPOSE:** Ingredient COA
- **ORIGIN:** USA

USDA ORGANIC

KOSHER

GF GLUTEN FREE

CERTIFIED VEGAN VEGAN.ORG

BRCGS Food Safety CERTIFICATED

NON GMO Project VERIFIED nongmoproject.org

CERTIFICATE OF ANALYSIS

Product Name: Antrodia camphorata
Mushroom mycelial biomass powder cultured on organic oats (*Avena sativa*)
Claim: Certified 100% Organic (USDA-NOP Standards) Product of USA (California)
Item #: 50050
Lot #: L22020805P
Manufacturing Date: 05/09/2022 (milling date)
Best Used By Date: 05/2025

Laboratory Analysis

Test	Method	Specification	Actual Reported Value
Identification	DNA sequencing of master tissue culture, taxonomic and visual monitoring of morphology and growth metrics during growth cycle. Annual HPTLC testing of finished product.	Complies to species positive ID specifications	Complies to species positive ID specifications
% Moisture	Constant Weight Moisture Meter	< 6% moisture	2.7 % moisture
Particle Size	Screen / Sieve	≥ 95% through 60 Mesh	Complies
Gluten	Agrastrip Gluten G12 Test Kit	< 20 ppm	Complies
TPC	FDA BAM Chapter 3 or equivalent	≤ 10,000 cfu/g	< 10 cfu/g
Yeast & Mold	FDA BAM Chapter 18 mod. or equivalent	≤ 1,000 cfu/g	< 10 cfu/g
Coliforms	CMMEF Chapter 9.933 or equivalent	≤ 100 cfu/g	< 10 cfu/g
Salmonella	AOAC-RI 121501 or equivalent	Not detected / 25 g	Not detected / 25 g
Staphylococcus aureus	PF-AOAC 2003.07, 2003.08, 2003.11 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
E. coli	CMMEF Chapter 9.933 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
Listeria spp.	AOAC-RI 061702 or equivalent	Not detected / 25 g	Not detected / 25 g
Arsenic (As)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.25 ppm	< 0.0100 ppm
Cadmium (Cd)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	0.0120 ppm
Lead (Pb)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm
Mercury (Hg)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm

Sensory Analysis

Test	Specification	Results
Appearance	Powder	Complies
Color	Brown	Complies
Aroma	Fruity / Earthy	Complies
Flavor	Slightly Bitter / Nutty / Earthy	Complies
Texture	Powdery	Complies

Luis Flores
Luis Flores – QA Manager

05-27-22
Date

IZM 1544
Lot 13800

Antrodia L22020805P

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- **INGREDIENT ACCREDITATION(S):**

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Chaga (*Inonotus obliquus*) Mushroom
- **LOT:** L22101409A
- **PURPOSE:** Ingredient COA
- **ORIGIN:** USA

USDA ORGANIC

KOSHER

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BRCGS Food Safety CERTIFICATED

NON GMO Project VERIFIED nongmoproject.org

CERTIFICATE OF ANALYSIS

Product Name: Chaga (*Inonotus obliquus*) Mushroom mycelial biomass powder cultured on organic oats (*Avena sativa*)
Claim: Certified 100% Organic (USDA-NOP Standards) Product of USA (California)
Item #: 50090
Lot #: L22101409A
Manufacturing Date: 11/29/2022 (milling date)
Best Used By Date: 11/2025

Laboratory Analysis

Test	Method	Specification	Actual Reported Value
Identification	DNA sequencing of master tissue culture, taxonomic and visual monitoring of morphology and growth metrics during growth cycle. Annual HPTLC testing of finished product.	Complies to species positive ID specifications	Complies to species positive ID specifications
% Moisture	Constant Weight Moisture Meter	< 6% moisture	2.7 % moisture
Particle Size	Screen / Sieve	≥ 95% through 60 Mesh	Complies
Gluten	Agrastrip Gluten G12 Test Kit	< 20 ppm	Complies
TPC	FDA BAM Chapter 3 or equivalent	≤ 10,000 cfu/g	< 10 cfu/g
Yeast & Mold	FDA BAM Chapter 18 mod. or equivalent	≤ 1,000 cfu/g	< 10 cfu/g
Coliforms	CMMEF Chapter 9.933 or equivalent	≤ 100 cfu/g	< 10 cfu/g
Salmonella	AOAC-RI 121501 or equivalent	Not detected / 25 g	Not detected / 25 g
Staphylococcus aureus	PF-AOAC 2003.07, 2003.08, 2003.11 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
E. coli	CMMEF Chapter 9.933 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
Listeria spp.	AOAC-RI 061702 or equivalent	Not detected / 25 g	Not detected / 25 g
Arsenic (As)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.25 ppm	< 0.0100 ppm
Cadmium (Cd)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm
Lead (Pb)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm
Mercury (Hg)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm

Sensory Analysis

Test	Specification	Results
Appearance	Powder	Complies
Color	Brown	Complies
Aroma	Mild / Earthy	Complies
Flavor	Nutty / Earthy	Complies
Texture	Powdery	Complies

Rachel Warner
QA Specialist

12-15-22
Date

DN 0852
By 13798

Chaga L22101409A

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- **INGREDIENT ACCREDITATION(S):**

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Lion's Mane (*Hericium erinaceus*) Mushroom
- **LOT:** L22103110P
- **PURPOSE:** Ingredient COA
- **ORIGIN:** USA

USDA ORGANIC

KOSHER

GF GLUTEN FREE

CERTIFIED VEGAN VEGAN.ORG

BRCGS Food Safety CERTIFICATED

NON GMO Project VERIFIED nongmoproject.org

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CERTIFICATE OF ANALYSIS

Product Name: Lion's Mane (*Hericium erinaceus*) Mushroom mycelial biomass and fruit body powder cultured on organic oats (*Avena sativa*)

Claim: Certified 100% Organic (USDA-NOP Standards) Product of USA (California)

Item #: 50100

Lot #: L22103110P

Manufacturing Date: 12/16/2022 (milling date)

Best Used By Date: 12/2025

Laboratory Analysis

Test	Method	Specification	Actual Reported Value
Identification	DNA sequencing of master tissue culture, taxonomic and visual monitoring of morphology and growth metrics during growth cycle. Annual HPTLC testing of finished product.	Complies to species positive ID specifications	Complies to species positive ID specifications
% Moisture	Constant Weight Moisture Meter	< 6% moisture	2.3 % moisture
Particle Size	Screen / Sieve	≥ 95% through 60 Mesh	Complies
Gluten	Agrastrip Gluten G12 Test Kit	< 20 ppm	Complies
TPC	FDA BAM Chapter 3 or equivalent	≤ 10,000 cfu/g	280 cfu/g
Yeast & Mold	FDA BAM Chapter 18 mod. or equivalent	≤ 1,000 cfu/g	20 cfu/g
Coliforms	CMMEF Chapter 9.933 or equivalent	≤ 100 cfu/g	80 cfu/g
Salmonella	AOAC-RI 121501 or equivalent	Not detected / 25 g	Not detected / 25 g
Staphylococcus aureus	PF-AOAC 2003.07, 2003.08, 2003.11 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
E. coli	CMMEF Chapter 9.933 or equivalent	< 10 cfu/g (Not Detected)	< 10 cfu/g (Not Detected)
Listeria spp.	AOAC-RI 061702 or equivalent	Not detected / 25 g	Not detected / 25 g
Arsenic (As)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.25 ppm	0.0200 ppm
Cadmium (Cd)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	0.00590 ppm
Lead (Pb)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm
Mercury (Hg)	AOAC 2011.19 and 993.14 (modified) ICP-MS Instrumentation	≤ 0.1 ppm	< 0.00500 ppm

Sensory Analysis

Test	Specification	Results
Appearance	Powder	Complies
Color	Brown	Complies
Aroma	Mild / Earthy	Complies
Flavor	Slightly Bitter / Nutty / Earthy	Complies
Texture	Powdery	Complies

Rachel Warner
QA Specialist

01-03-23
Date

BN 0825
Bg 13799

Lion's mane L22103110P

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** NMN (*Nicotinamide Mononucleotide*)
- **LOT:** NIGNICOMONO-2302V354203
- **PURPOSE:** Ingredient COA
- **ORIGIN:** China

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Nutraceuticals Group USA

50 Sindle Avenue, Little Falls, NJ 07424
Phone: 201-399-2333 • Fax: 973-256-0700
Toll Free: 1-800-651-2631
Website: www.nutraceuticalsgroup.com
EMail: sales@nutraintlgroup.com
FDA# 18972028146

CERTIFICATE OF ANALYSIS

Product Name: Nicotinamide Mononucleotide	Country of Origin: China	Lot#: NIGNICOMONO-2302V354203
Molecular Formula: $C_{11}H_{15}N_2O_8P$	CAS No.: 1094-61-7	Molecular Weight: 334.22g/mol
Manufacture Date: Nov 2021		Retest Date: Nov 2023

TEST ITEMS	SPECIFICATIONS	RESULTS	TEST METHODS
Appearance	White to Off-White Crystalline Powder	Complies	Visual
Taste & Odor	Characteristic	Complies	Organoleptic
Identification	Complies with Standard	Complies	IR
Assay: Purity	NLT 98%	99.83%	HPLC
Particle Size	Thru 80 Mesh	$\geq$ 95%	Mesh Screen
Moisture	NMT 5%	0.24%	CP2015
Residual Solvents	Meets Requirements	Complies	CP2015
HEAVY METALS ANALYSIS			
Total Heavy Metals	NMT 10ppm	Complies	USP<231>
Arsenic (As)	NMT 2.0ppm	Complies	ICP-MS
Cadmium (Cd)	NMT 1.0ppm	Complies	ICP-MS
Lead (Pb)	NMT 3.0ppm	Complies	ICP-MS
Mercury (Hg)	NMT 0.1ppm	Complies	ICP-MS
MICROBIOLOGICAL ANALYSIS			
Total Plate Count	NMT 1,000cfu/g	Complies	USP
Yeast & Mold	NMT 100cfu/g	Complies	USP
E. Coli	Absent	Not Detected	USP
Salmonella	Absent	Not Detected	USP
Staph. Aureus	Absent	Not Detected	USP

Storage	Store in a clean, dry place at room temperature.
Shelf Life	Two years if sealed and stored away from direct sunlight.

Approved By: [illegible] / QA Department

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Microcrystalline Cellulose
- **LOT:** FB2202027
- **PURPOSE:** Ingredient COA
- **ORIGIN:** India

NATNOW NUTRITION

CERTIFICATE OF ANALYSIS

PRODUCT MICROCRYSTALLINE CELLULOSE 102

COUNTRY OF ORIGIN MCC INDIA : MND 09/21 EPD 09/26 BATCH FB2202027

White or almost white, free-flowing powder consisting of non-fibrous particles, insoluble in water, dilute acid and most organic solvents. Practically insoluble/very slightly soluble in dilute NaOH solution (1 in 20)

TEST ITEMS	SPECIFICATIONS	RESULTS
Identification A	Infrared Absorption	Complies
Identification B (Zinc Chloride)	Should produce a violet-blue color	Positive
Identification C (Degree of Polymerization)	NMT 350	232.2
pH	5.0 – 7.5	6.49
Conductivity	NMT 75 $\mu S \cdot cm^{-1}$	64 $\mu S \cdot cm^{-1}$
Water Soluble Substances	NMT 0.25%	0.15%
Ether Soluble Substances	NMT 0.05%	0.02%
Loss on Drying	NMT 7.0%	3.9%
Heavy Metals	NMT 10 ppm	Complies
Arsenic	NMT 3 ppm	Complies
Lead	NMT 0.5 ppm	Complies
Cadmium	NMT 2 ppm	Complies
Mercury	NMT 0.1 ppm	Complies
Residue on Ignition	NMT 0.1%	0.06%
Bulk Density	0.30 – 0.36 g/mL	0.32 g/mL
Sieve Analysis (% Retention)		
60 Mesh	≤ 8.0%	0%
200 Mesh	≥ 45.0%	55.0%
Particle Size Distribution		
D_{10}	20 – 50 µm	25.6 µm
D_{50}	90 – 150 µm	121.1 µm
D_{90}	190 – 300 µm	228.4 µm
Total Plate Count	NMT 1,000 cfu/g	70 cfu/g
Yeast & Mold	NMT 100 cfu/g	10 cfu/g
Escherichia coli	Absent/g	Absent
Staphylococcus aureus	Absent/g	Absent
Salmonella species	Absent/10g	Absent
Pseudomonas aeruginosa	Absent/g	Absent

The raw materials, manufacturing process, and product do not contain any of the solvents listed in Residual Solvents (Ph.Eur. 5.4; USP<467>). This batch complies with the requirements of USP. Tested according to USP.

*The above information is based on the Certificate of Analysis received from the manufacturer or our supplier, and it not intended as a substitute for strict quality control analysis by the purchaser of this product.

Rec 1900
Rej 12700

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- **INGREDIENT ACCREDITATION(S):**
  - Kosher

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Silica (*Silicon dioxide*)
- **LOT:** 18318
- **PURPOSE:** Ingredient COA
- **ORIGIN:** USA

KJC NUTRA HEALTHY PRODUCTS QUALITY

Product Name: **Silicon Dioxide Powder (Silica) Pirosil PS-200 FCC - KOSHER**

Manufacture Date: May, 2022

Expiration Date: May, 2024

Batch No: **18318**

Quantity: **13.44mt**

Characteristics	Test Results	FCC Limits
A	PASSES TEST	PASSES TEST
B	PASSES TEST	PASSES TEST
ASSAY (as SiO_2), %	96	94 min
Lead, ppm	0.8	5 Max.
Loss on Drying (105° C 2 hours), %	5.2	7 Max.
Loss on Ignition (1000° C 1 hour), %	7.0	8.5 Max.
Soluble Ionizable Salts (as Na_2SO4), %	0.9	5 Max.
Tapped density, g/l	158	160 Max.

This product meets FCC specifications.

Note: The above information is based on the certificate of analysis received from the manufacturer of this product. It is not intended to be a substitute for strict quality control analysis by the purchaser of this product.

Quality Control

CONTACT INFO: 12601 NW 115 th ave, Ste A-103 Medley, Fl 33178
kcharfan@kjcnutra.com / cs@kjcnutra.com 786.462.2549 / 786.444.5905

KJC NUTRA INC. kjcnutra.com

Rg 0481
Rg 13567

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- **INGREDIENT ACCREDITATION(S):**
  - None.

- **BLEND:** IMMUNITY*
- **INGREDIENT:** Magnesium Stearate
- **LOT:** 22F-MS-112
- **PURPOSE:** Ingredient COA
- **ORIGIN:** India

KJC NUTRA HEALTHY PRODUCTS QUALITY

PRODUCT	**Magnesium Stearate FCC NF/USP Grade**
LOT No.	22F/MS/112
MFG DATE:	June 2022
EXP DATE:	May 2027
COUNTRY OF ORIGIN:	India
Description	Very fine, light, white powder, slippery to touch with a slightly fatty odor; Insoluble in water, in alcohol, and in ether

TEST ITEMS	SPECIFICATIONS	RESULTS	METHODS
Identification			
Test A: Freezing Point	53°C min	55°C	EP
Test B: Acid Value	198 – 210	203.0	EP
Test C: GC	Pass	Complies	EP
Test D: Magnesium	White crystalline precipitate is formed	Complies	EP
Limit of Chloride	0.1% max	< 0.1%	USP/EP
Limit of Sulfate	0.5% max	< 0.5%	EP/USP
Heavy Metals	10 ppm max	< 10 ppm	EP/USP
Lead*	0.5 ppm max	0.32 ppm	ICP-MS
Arsenic*	1 ppm max	0.01 ppm	ICP-MS
Cadmium*	0.5 ppm	< 0.01 ppm	ICP-MS
Nickel*	5 ppm max	1.94 ppm	ICP-MS
Mercury*	0.1 ppm max	0.02 ppm	ICP-MS
ASSAY			
Magnesium (dried basis)	4.0 – 5.0%	4.68%	EP/USP
MgO content	6.65 – 8.3%	8.22%	EP/USP
Acidity or Alkalinity	Pass	Complies	USP/EP
Loss of Drying (105°C)	4.0% max	3.63%	EP/USP
Organic Volatile Impurities	Pass	Complies	EP/USP
Relative Content of Stearic and Palmitic Acid			
Stearic Acid Peak	40% min	45.40%	EP/USP
Sum of Stearic + Palmitic	90% min	99.00%	EP/USP
Specific Surface Area	6 – 12 m^2/g	7.66 m^2/g	USP
Particle Size	99% min thru 200 Mesh	99.1%	In House
Bulk Density	140 – 200 g/L	189 g/L	In House
MICROBIOLOGICAL			
Total Plate Count	1,000 cfu/g max	25 cfu/g	USP
Yeast & Mold	100 cfu/g max	< 10 cfu/g	USP
E. coli, Staph aureus	Negative/g	Complies	USP
Salmonella	Negative/10g	Complies	USP

Ivaylo Balabanov, Quality Assurance

*The above information is based on the certificate of analysis received from our supplier and is not intended as a substitute for strict quality control analysis by the purchaser of this product.

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kcharfan@kjcnutra.com / cs@kjcnutra.com 786.462.2549 / 786.444.5905

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