

 The logo for M2 Ingredients features a stylized blue 'm' with a smaller 'm' inside it, followed by the word 'INGREDIENTS' in a smaller, sans-serif font.	SIGNATURE PAGE
RECORD ID: <u>GLB-FGS-0013</u>	
TITLE: 50090 - M2 Chaga (Inonotus obliquus)	
AUTHOR: Jimena Calfa	
STATUS: EFFECTIVE	

User	Role	Revision	Decision	Date Signed
Jimena Calfa	Quality Approver(s)	6.0	Approve	02/28/2025 05:22 PM PST
Christina Porras	Additional Approver(s)	6.0	Approve	02/28/2025 04:50 PM PST

	<h2>Finished Product Specification</h2> <h3>M2 - Chaga (<i>Inonotus obliquus</i>)</h3>			
Section: Quality Management	Item#: 50090	Customer: General Customers	Approved By/Date: See signature page	Effective Date: See signature page

Product Information	
Product Name	Organic Chaga (<i>Inonotus obliquus</i>) Mushroom Powder
Composition	Dehydrated, finely milled mushroom mycelial biomass cultured on Organic oats (<i>Avena sativa</i>)
Fungal Part Used	Mycelial biomass
Country of Origin	Product of USA (California)
Natural	Contains no added desiccants, colorants, fillers, or preservatives
Allergens	Product formulated without any of the 9 major food allergens of USA
Storage	Store tightly sealed in original container under ambient temperature, in a dry location
Shelf Life	3 years from date of milling
Particle Size	≥ 95% through 60 Mesh Screen
Bulk Density	0.28 to 0.44 g/ml
Tapped Density	0.59 to 0.75 g/ml

Regulatory Information	
	
	
Organic	Certified Organic (USDA NOP Standards)
Kosher	Certified Kosher by Earth Kosher
Non-GMO	Product is Non-GMO Verified by Food Chain Id
Vegan	Vegan Certified through VegeCert
BRCGS	Facility is BRCGS for Food Safety Certified since 2020

	<h1>Finished Product Specification</h1> <h2>M2 - Chaga (<i>Inonotus obliquus</i>)</h2>			
Section: Quality Management	Item#: 50090	Customer: General Customers	Approved By/Date: See signature page	Effective Date: See signature page

Analysis and Specifications		
Test	Method	Specification
Physical & Chemical Testing		
Identification	DNA sequencing of master tissue culture, taxonomic and visual monitoring of morphology and growth metrics during growth cycle. Annual HPTLC testing on milled powder.	Complies to species positive ID specifications
% Moisture	Constant Weight Moisture Meter	< 6% moisture
Gluten	ELISA with US-RIDASCREEN Total Gluten No. R7041	< 20 ppm
Sensory Testing		
Appearance / Color	Organoleptic	Brown Powder
Aroma	Organoleptic	Mild / Earthy
Flavor	Organoleptic	Nutty / Earthy
Texture	Organoleptic	Powdery
Microbiological Testing		
TPC	FDA BAM Chapter 3 or equivalent	$\leq 10,000$ cfu/g
Yeast & Mold	FDA BAM Chapter 18 mod. or equivalent	$\leq 1,000$ cfu/g
Coliforms	CMMEF Chapter 9.933 or equivalent	≤ 100 cfu/g
E. coli	CMMEF Chapter 9.933 or equivalent	< 10 cfu/g (Not Detected)
Salmonella	AOAC-RI 121501 or equivalent	Not Detected / 25 g
Listeria spp.	AOAC-RI 061702 or equivalent	Not Detected / 25 g
Contaminants Testing		
Arsenic (As)	ICP-MS	≤ 0.25 ppm
Cadmium (Cd)	ICP-MS	≤ 0.1 ppm
Lead (Pb)	ICP-MS	≤ 0.1 ppm
Mercury (Hg)	ICP-MS	Not Detected at LOQ [#]
Aflatoxins *	US-Multitoxin LCMSMS SOP023 or equivalent	≤ 20 ppb
Glyphosate *	LC-MS/MS	≤ 1 ppm
Pesticide *	AOAC 2007.01 or USP	Not Detected at LOQ [#]

*Tests perform annually on finished milled powder

[#] Limit of Quantification

	Finished Product Specification			
M2 - Chaga (<i>Inonotus obliquus</i>)				
Section: Quality Management	Item#: 50090	Customer: General Customers	Approved By/Date: See signature page	Effective Date: See signature page

Packaging Specification - 20Kg box	
Primary Packaging	Material Specification
Liners	10kg Bag: Clear 20 x 30" 2 Mil Industrial polyethylene bags. (Item # 26000) 20kg Bag: Clear 18 x 16 x 40" 2 Mil Gusseted polyethylene (Item # 26010)
Closure	Metal Detectable Zip Tie 6" (Item# 26031)
Cardboard Box	Double Wall Corrugated Box - Size 16 x 16 x 10" (Item # 26020)
Label	See below example



ORGANIC CHAGA

MUSHROOM POWDER

Contents: Certified Organic Chaga (*Inonotus obliquus*)mushroom mycelial biomass cultured on Organic oats (*Avena sativa*). Dehydrated and Finely Milled.

Product of USA (California)

Net Weight 20kg.

Produced by M2 INGREDIENTS Inc.

Vista, CA. USA 92081

CDPH-OPPR: # 122187

Certified Organic by Organic Certifiers, Certified Kosher by Earth Kosher

Item#: 50090

Lot#:??????

Mfg Date: mm/yyyy

Best used by Date: mm/yyyy

Store tightly sealed in original container under ambient temperature, in a dry location

Rev# 4.0