



# mycotrition

QUALITY MUSHROOMS INSIDE



QUALITY  
CONTROLLED  
IN GERMANY  
★★★★★



Non-EU Agriculture  
AT-BIO-402  
DE-ÖKO-003

# What does mycotrition stand for?

## Over 40 years of experience in the cultivation of medicinal mushrooms

- ✔ Leading medicinal mushroom supplier
- ✔ Exclusive long-standing partnerships with mushroom farms
- ✔ Our products do not contain grain fillers

## Broadest product range on the market

- ✔ Customized raw material available on request
- ✔ Available for immediate shipment in organic and conventional quality
  - Extracts: available from 1 kg
  - Powders: available from 5 kg
  - Bulk Capsules: available in bags of 2,000 pcs

## Outstanding in terms of quality

- ✔ Product safety and transparency
- ✔ Every single batch controlled on a German GMP basis

Our company builds on over 40 years of professional experience in the cultivation and processing of medicinal mushrooms.

Right from the beginning, we have dedicated ourselves to the quality of our raw materials. We are guided by the principles of transparent tracing of our raw materials, from cultivation to delivery; continuous controls by

accredited German laboratories; processing of premium goods in our production operations in Germany and Austria; and, above all, the service we provide to our customers.

With each delivery, you are provided with all of the analyses and certificates that confirm the marketability from the standpoint of food quality and/or organic certifications.

## MUSHROOMS ARE OUR PASSION



QUALITY  
CONTROLLED  
IN GERMANY  
★★★★★



The complete quality control process (internal and external) takes place in Germany. With our own and worldwide unique Mycotritition Fingerprint Analysis we guarantee specified ingredients like Polysaccharides, Adenosine or Cordycepine (depending on the respective raw material).

Furthermore, all batches are tested by the state-accredited laboratory group AGROLAB® according to the latest standards and are therefore allowed to carry the AGROLAB® quality seal. Each incoming raw material batch of each individual mushroom is tested for over 250 parameters, such as pesticides, heavy metals, radioactivity, PAH and microbiological contamination.

All our products (except for Enoki, special extracts: Reishi Triterpene <sup>max</sup>, Cordyceps-CPA<sup>3</sup>, Chaga dual extract) are available in conventional and organic quality.

# From the Chinese highlands to your production

## Cultivation

The regions in which our mushrooms are cultivated are located far away from crowded metropolitan areas and industrial plants, in the highlands of the Fujian and Jiangxi provinces. Not only are the climatic conditions ideal there, but so are the areas under cultivation, with soil quality that is optimum for breeding mushrooms. During regular visits throughout the year, we convince ourselves that the conditions for cultivation are appropriate and ensure the quality of the mushrooms on location.



01



02

## Drying

Once they are harvested, the mushrooms are dried immediately. Either naturally, exposed to the light of the sun, or, for more sensitive varieties, somewhat more gently, in modern drying facilities. In the latter, temperatures can be regulated with greater precision. Following gentle drying, the mushroom fruiting bodies are checked by hand. Only mushrooms of flawless quality are approved for further processing.



## Powdering

The mushrooms are coarsely chopped and in some cases cut into slices and are processed further to create mushroom meal. Over several processing steps, the mushroom meal is then ground into mushroom powder. Here, it is very important to distinguish between coarse mushroom powder, with a grain size of to 0.5 mm, and fine mushroom powder with a grain size of up to 0.1 mm. The fineness of the mushroom powder is a crucial indicator of the quality of the end product. We use only very fine mushroom powder in our products.

03



04

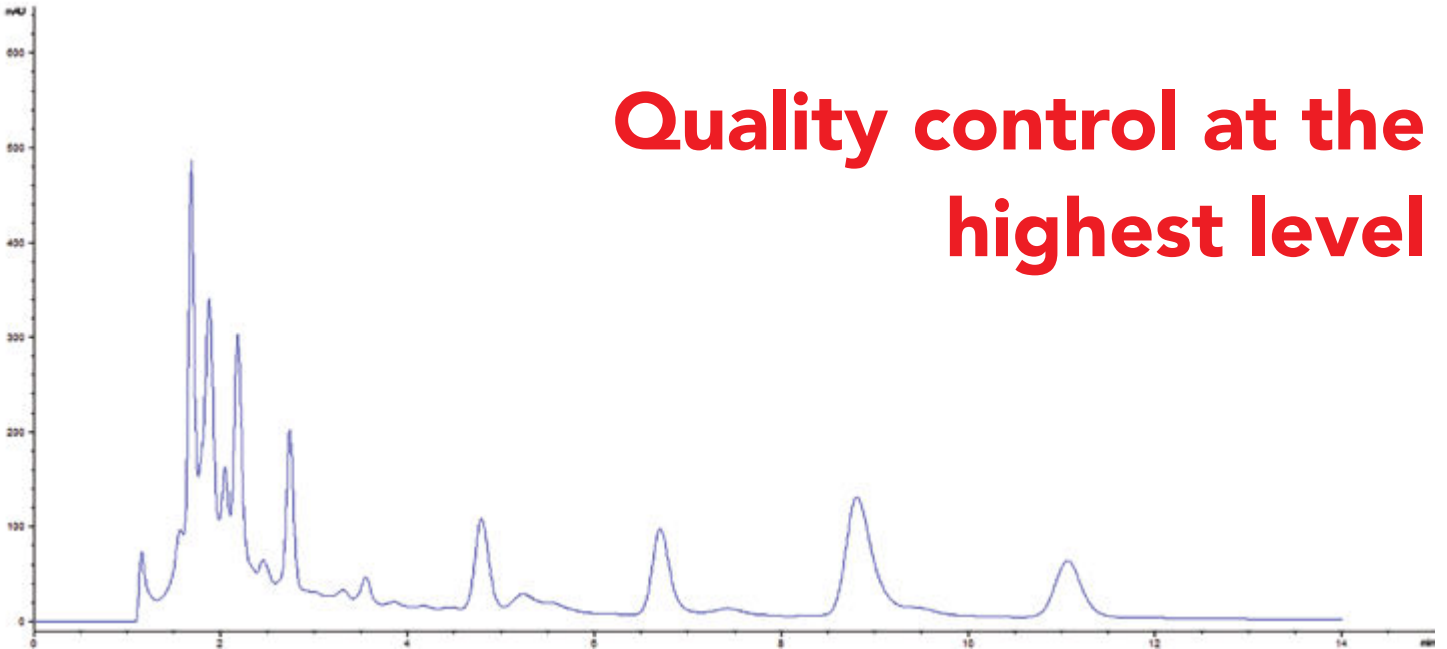
## Extraction

The entire extraction process takes place in a GMP (good manufacturing practice) environment that includes state guidelines for the quality assurance of production environments and production processes.

During the extraction process, the milled mushrooms are repeatedly heated for hours in the water tank – without boiling. This step calls for a great deal of experience and traditional expertise: each type of mushroom requires a different period of time and different temperatures if the important ingredients – among others the polysaccharides – are to become available. The polysaccharides are locked within a framework of chitin and proteins. Grinding the mushrooms cannot break open this framework.

Only the extraction process makes this possible. To put it in somewhat simplified terms: The simmering process gradually dissolves the chitin and protein bonds. This is how polysaccharides are released.

# Quality control at the highest level



**Cordycepin and adenosine evaluation by HPLC**

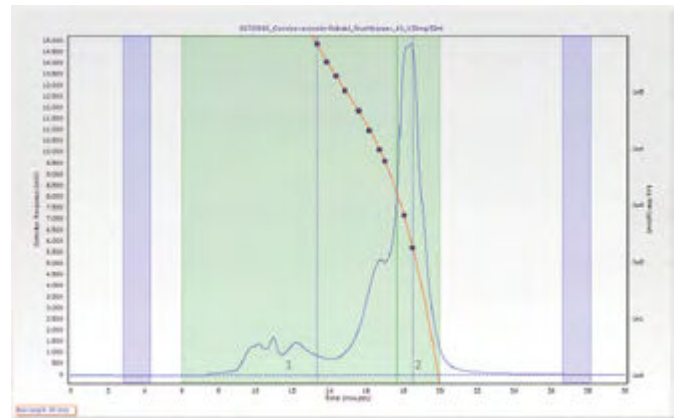
## Quality control

Incoming deliveries of goods to Germany are inspected at Dronania pharmaceuticals, a GMP- (Good Manufacturing Practises) and IFS- (International Food Standard) certified company. The batch of raw materials delivered is sampled for analyses according to a representative mathematical key and divided into three parts. The first part remains with Dronania pharmaceuticals for further analysis. The second part goes to the company Agrolab Group for analysis of any impurities. The third part is sent to mycotritition GmbH as a retention sample.

## Analytcs

The control performed at Dronania is a GMP SOP including several steps; with our own developed method of measuring the polysaccharides quantity (in mushrooms) by SEC (size exclusion chromatography) we are also getting an unique fingerprint for each mushroom. By this we can determine the purity and quality of the products.

Futher more our lab at Dronania tests: beta-glucans, triterpenes, cordycepin, d-mannitol and many more.



**Polysaccharide evaluation by SEC**

The Agrolab Group – a Europe-wide, independent laboratory group – performs an analysis for any residues found in the sample submitted to it. The raw material is tested for heavy metals, pesticides and microbes, as well as for radioactivity and polycyclic aromatic hydrocarbons. The analysis comprises more than 250 parameters. After evaluating all of these parameters, the Agrolab Group creates a data sheet with the results of residue analysis.

Based on the findings of the analyses by the Agrolab Group and the results of its own analyses, the quality-assurance unit at Dronania pharmaceuticals issues a final certificate that you as a customer receive, approving release of the batch of raw material.

Mushroom	Scientific name	Powder	Extract 30% polysaccharides	Powder capsules	Extract capsules
Agaricus blazei	Agaricus subrufescens	✓	✓ ✓	✓	✓
Auricularia	Auricularia auricula judae	✓	✓ ✓	✓	✓
Chaga	Inonotus obliquus	✓	✓ ✓	✓	✓
Champignon	Agaricus bisporus	✓	✓	on request	on request
Coprinus	Coprinus comatus	✓	✓ ✓	✓	✓
Cordyceps	Cordyceps sinensis	✓ ✓	✓ ✓	✓	✓
Coriolus	Coriolus versicolor	✓	✓ ✓	✓	✓
Enoki	Flammulina velutipes	on request	on request	on request	on request
Hericium / Lion's mane	Hericium erinaceus	✓	✓ ✓	✓	✓
Maitake	Grifola frondosa	✓	✓ ✓	✓	✓
Phellinus	Phellinus igniarius	on request	on request	on request	on request
Pleurotus	Pleurotus ostreatus	✓	✓ ✓	✓	✓
Polyporus	Polyporus umbellatus	✓	✓ ✓	✓	✓
Reishi	Ganoderma lucidum	✓	✓ ✓	✓	✓
Shiitake	Lentinula edodes	✓	✓ ✓	✓	✓
Tinder fungus	Fomes fomentarius	✓	✓	on request	on request
Tremella	Tremella fuciformis	✓	✓	on request	✓

✓ Organic    ✓ Conventional

**All other mushrooms, raw materials, capsules or other customized products are available on request.**

Special extracts:	Standardized to
Cordyceps-CPA <sup>3</sup>	≥ 30% Polysaccharides, 1% Cordycepine, 0,5% Adenosine
Reishi Triterpene <sup>max</sup>	≥ 10% Triterpenes, 20% Polysaccharides
Chaga dual extract	≥ 30% Polysaccharides, 3% Triterpenes
Beta-Glucan max: Agaricus, Hericium / Lion's mane, Reishi	≥ 35% Beta-Glucanes, 20% Polysaccharides

Extracts: available from 1 kg

Powders: available from 5 kg

Capsules: available in aluminium bags of 2.000 pcs (Reishi Powder Capsules: available in aluminium bags of 5.000 pcs)

Special extracts: available from 25 kg



# mycotrition

mycotrition GmbH  
Gewerbestr. 8  
82064 Strasslach, Germany

European Organic Inspection Authority:  
DE-ÖKO-003

+49 (0)8170 / 596 9000  
info@mycotrition.com  
mycotrition.com  
hks-health-solutions.com



health solutions  
INTERNATIONAL