



Certificate of Analysis

Product Description	Licorice Root Powder
Product Code	HELICO
Batch No	4352207
Best Before End	February 2021
Country of Origin	Azerbaijan

Chemical Parameters	Specification	Result
Moisture	<10.0 %	7.1 %
Ashes	<10.0 %	7.7 %
HCL Insoluble Ashes	<2.0 %	< 2.0 %

Microbiological Parameters	Specification	Result
Total Viable Count	No Guarantees	440
E.Coli	<100	<10
Enterobacteriaceae	No Guarantees	<20
Salmonella in 25g	Negative	Negative
Yeasts	No Guarantees	<20
Moulds	No Guarantees	40

The information above may have been supplied by an approved supplier and confirms the testing that has been carried out to confirm the product meets the agreed specification. Testing is carried out in the supplier's 'in house' laboratory or is sent for external analysis as appropriate; the supplier details have been obscured to maintain confidentiality.

Component	Status	Component	Status
Animal products	Not present	Flavours	Not present
Milk and Dairy Products	Not present	Preservatives	Not present
Egg products	Not present	Peanuts and products thereof	Not present
Fish and fish products	Not present	Nut and nut products	Not present
Cereal/Wheat Products	Not present	Mustard and products thereof	Not present
Seafood and shellfish	Not present	Celery and products thereof	Not present
Soybean and products thereof	Not present	Sesame seed and products thereof	Not present
Colours	Not present	Products containing Sulphur dioxide and sulphites >10mg/kg	Not present
Molluscs (including squid & octopus)	Not present	Lupin (ie leguminous plants, lupin flour)	Not present

Allergen Statement

MADAR Corporation supply a range of products that are internationally sourced from approved suppliers. Information is gathered from all suppliers to enhance knowledge of the product and supplier handling procedures.

The following products which are or may contain allergens are regularly handled by MADAR Corporation and their approved suppliers. Handling procedures are in place to reduce the likelihood of allergens being present.

- Cereals containing gluten (wheat, rye, barley, oats, spelt, kamut and their hybrid strains)
- Peanuts
- Soybeans
- Nuts - Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut.
- Celery
- Mustard
- Sesame seeds
- Products containing sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as sulphur dioxide.

Pesticide Statement

MADAR Corporation do not knowingly supply material containing pesticide residues above the legal maximum residue levels (MRL's), Codex recommendation or at a level that could cause a safety risk. Suppliers risk assess the materials supplied to MADAR Corporation and where a pesticide issue is considered a risk the supplier arranges applicable testing and issuing of results before the materials are accepted by MADAR Corporation. Where pesticide residues are assessed as 'low risk' the supplier may carry out random testing.

Organic materials are guaranteed free from pesticides through a chain of approval and supplier assurances.

Micro Statement

This product has not been treated by heat. Herbs and spices are naturally sourced agricultural products which may contain naturally high microbiological flora. Where low levels of microorganisms are a specific requirements then customers are advised to use raw materials which have undergone a method of heat treatment to reduce the microbial load. MADAR Corporation will not accept responsibility for the incorrect application of products which result in final products being rejected.

Health & Safety

A non-hazardous product if used under normal circumstances. Buyers of our products are aware that our products are not supplied for food use. If you are unsure of the suitability of our product for your specific use, you should not use and seek further information from our customer services at sales@madarcorporation.co.uk

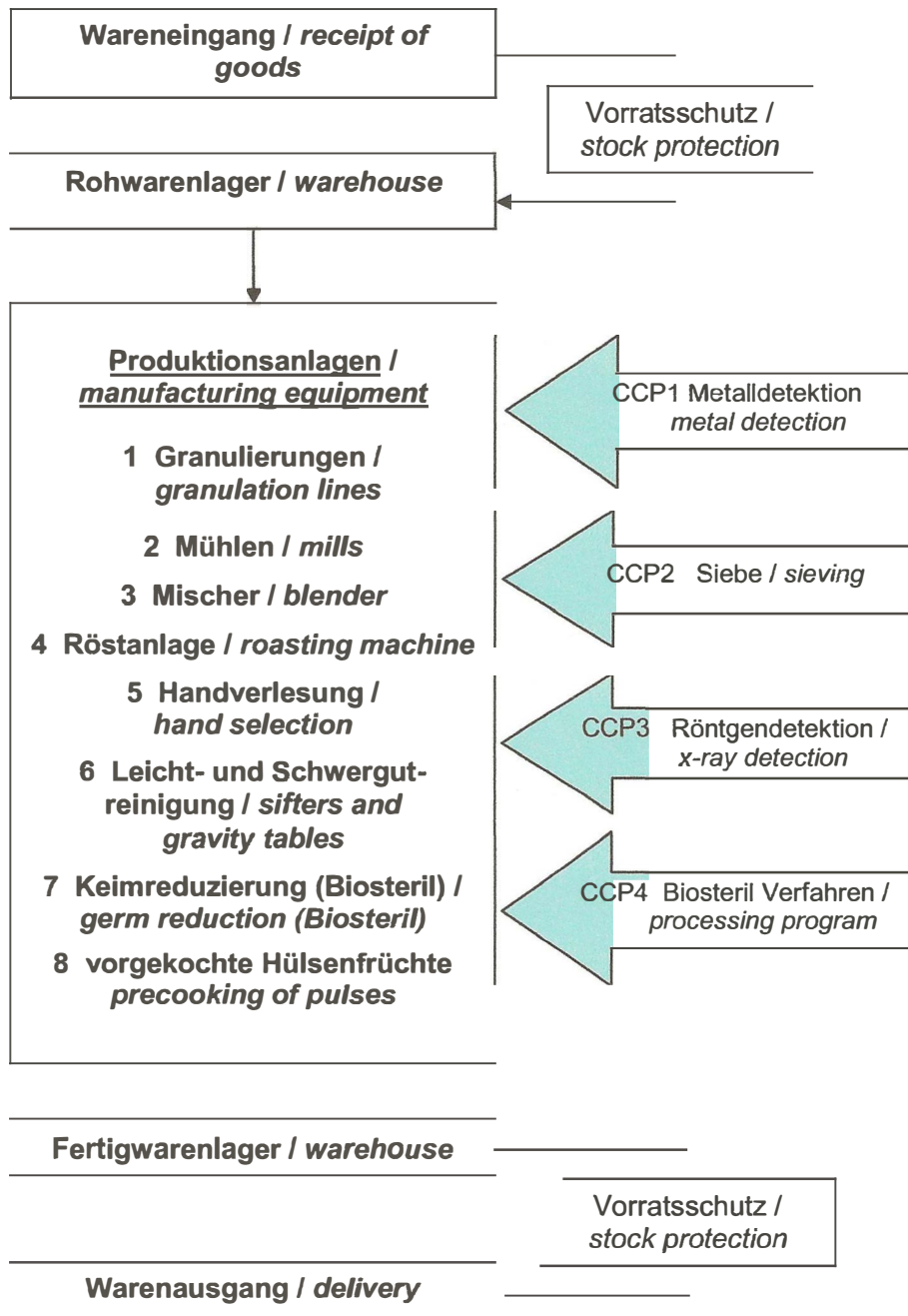
Use in production:

If the goods or any part thereof supplied under the contract are processed, altered or tampered with in any way by the buyer or receiver of the goods or any other person, the quality of the goods shall be deemed to be acceptable to the buyer. All customers' quality control checks are to be completed on the entire load prior to use in production or re-sale to 3rd parties in original state or as a blend.

Infestation:

We check that our products are free from infestation on arrival in our facility. However, spices, herbs, seeds and agricultural products generally, often have insect eggs within the product. As there are no fumigants legally allowed within the EC that can de-nature (destroy) all insect eggs, MADAR Corporation Limited cannot give a guarantee that this product will not be subject to infestation after delivery to clients. If the product supplied must be guaranteed to be free from infestation, a heat treated product may be available.

Flow Chart - Licorice Root Powder





LICORICE ROOT POWDER

Genetic Modification Policy Statement

We, MADAR Corporation Ltd, hereby declare that, to the best of our knowledge, the above mentioned material supplied by us does not contain any ingredients from GM sources.

Ingredients are internally sourced by approved suppliers. Information is gathered to give assurances that genetically modified organisms are not part of the supply chain. This gives confidence that products JustIngredients purchases are grown and sold as GM free, however we cannot guarantee absolute freedom from adventitious contact with GM materials, which are out of our control

Customers will be alerted immediately of any GM issues relating to products supplied



HEALTH HAZARD DATA	LICORICE ROOT POWDER
ROUTES OF EXPOSURE	
Inhalation	NO HAZARD
Skin Contact	NO HAZARD
Skin Absorption	NO HAZARD
Eye Contact	NO HAZARD
Ingestion	NO HAZARD
EFFECTS OF OVER EXPOSURE	
Acute over exposure	NO HAZARD
EMERGENCY & FIRST AID PROCEDURES	
Eyes	N/A

2014



Skin	N/A
Ingestion	N/A
Inhalation	N/A
Notes to Physician	
SPECIAL PRECAUTIONS	N/A

2014

Product Specification

Licorice Root - Natural

Product Code: **HELICOROOT**

Version: **06**

Date: **17.01.14**

Product Description	Powdered, peeled or unpeeled root of Glycyrrhiza glabra
Ingredient Declaration	Licorice Root
Country of origin	Syria/ Turkey/ Spain/ Azerbaijan

Physical profile	Characteristics
Particle Size	250 micron
Colour	Yellowish brown powder
Flavour and Odour	Characteristic, aromatic smell and very sweet taste

Microbiological Profile	Maximum Levels Accepted
E Coli /g	<10 ²
Salmonella /25g	Negative in 25g

Chemical Profile	Limits
Loss on drying	10% max
Total Ashes % w/w	10% max
HCL insoluble ashes	2% max, 0.5% is peeled root used
Ochratoxin	<20 (µg/kg)

Storage and Shelf Life

Shelf Life	Typical shelf life is 2 years. Minimum guaranteed 1 year on delivery
Storage	Store in cool dry conditions away from direct sunlight.
Packaging	Kraft paper sack with poly liners as required
Labelling	Product name, Weight. Batch/lot code. Best before date. Allergen information as applicable

Additional Information

	Status		Status
Vegetarian	Yes	Gluten Free	Yes
Vegan	Yes	Kosher	Yes - not certified
Organic	No		