

BERGWERFF

ORGANIC INDIA PVT. LTD.

PRODUCT SPECIFICATION

ASHWAGANDHA ROOTS

Withania somnifera

ORGANIC, STEAM TREATED

Withania somnifera, also known as Ashwagandha or Indian ginseng or winter cherry is an annual evergreen shrub in the *Solanaceae* or nightshade family. The species name "*somnifera*" means "sleep-inducing" in Latin. The name "ashwagandha" is a combination of the Sanskrit words '*ashva*', meaning horse, and '*gandha*', meaning smell, reflecting that the root has a strong horse-like odor.

Ashwagandha roots are stout, long tuberous, fleshy, whitish brown, used in Ayurveda as remedy to treat fatigue, joint pain, stress, anxiety, etc. Its medicinal properties are due to the presence of naturally occurring steroids- 'Withanolides' which are the active ingredient of Ashwagandha.

Product information

Ingredients	Single ingredient, 100% Ashwagandha Roots
Status	100% Organic, Pesticide residue free, Certified for NPOP, NOP, (EC) 834/2007 & (EU) 2018/848 standards
Fumigation	Not Treated with any Chemical. Naturally treated through EcO2 processing technique
Product Processing	Produced and processed according to current Good Manufacturing Practices (GMP), HACCP norms and regulations NPOP, NOP, (EC) 834/2007 & (EU) 2018/848
Heat Treatment	Steam treated

Organoleptic Description

Appearance	3-7 cm long, stout, long tuberous, fleshy, whitish-brown roots
Flavor	Bitter, Characteristic
Odor	Characteristic, Sweet, Horse like

Physical-Chemical Characteristics¹

Particle size	Whole Roots, 3-7 cm long
Moisture	12 % max
Total Ash	10 % max
Acid Insoluble Ash (AIA)	2 % max

Microbiological Characteristics²

Total Plate Count – TPC (max)	< 100,000 cfu/g
Salmonella	Absent in 2x375 g
Yeast and Mould – Y&M (max)	< 500 cfu/g
Coliforms (max)	< 100 cfu/g
<i>E. coli</i> (max)	< 10 cfu/g
<i>Enterobacteriaceae</i> (max)	< 10 cfu/g
<i>Staphylococcus aureus</i> (max)	< 10 cfu/g

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Issue No	07	Issue Date	of 01-April-2022
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Prepared and documented by	Dr. Soumitra Soni Quality Assurance	Approved by	NV Baby Raphael Head QA / QC

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Mycotoxins³

Product is routinely checked for Aflatoxin and Ochratoxin and it complies with the regulations of the destination country.

GM declaration³

To the best of our knowledge this product is non-GM and does not contain GM processing agents. This has been verified by organic certification and by traceability/identity preservation systems including adequate separation.

Allergens statement³

Free of any known Allergens.

Shelf life

Products are supplied with a minimum of 24 months to recommended shelf life (shown on product label) when stored sealed in original packaging under proper storage conditions. To maintain the product in best condition it is advisable to protect it from exposure to pests and extremes of moisture, light and temperature.

Product packaging

20 - 25 kg, PP Kraft Bags with heat sealed inner poly liner as Bergwerff standard. Other options can be suggested.

Any other mandatory requirements will be complying to the respective regulations of the destination country.

Note

¹ Testing shall be with reference to the methods prescribed in the manuals of ASTA, ESA, AOAC and Bergwerff.

² Testing shall be with reference to the methods prescribed in the manuals of USDA BAM, AOAC and Bergwerff.

³ These tests are performed when required. Certificates of Conformance are available on request.

Special remarks

The content of this specification is based on typical information for this product and results obtained from our own due diligence sampling, assessment, and testing protocols, in addition to any testing/sampling that has been undertaken by our supplier.

However, due to the nature of this product, which is not completely homogenous, test results are indicative / referral and may not be entirely representative of the product throughout the lot. In addition, the content of this Specification does not confirm or ensure that the product is safe for all intended uses other than as Spice and Condiment.

Our quality and technical documentation does not relieve the customer of their responsibilities to check that the goods supplied are suitable and considered safe for their intended use before purchase. The data provided is for information only.

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