

Product Technical Dossier

Product	Boswellia Serrata Powdered Extract min 65%
CCL Product Code	P0216

Specification Details

	Specification
Identification	TLC
Assay (Titration)	Boswellic acids NLT 65%
Appearance	Powder
Colour	Off-white to light yellow
Aroma	Characteristic
Flavour	Characteristic
Sieve Analysis % passed	Min 95% Through 80mesh
Loss on Drying	Max 5%
Ash	Max 5%
Bulk Density	0.25~0.55g/ml
Tapped Density	0.45~0.75g/ml
Impurities/Residual Solvents	Meets EU limits

Microbiological Limits

Total Viable Count	Max 10,000cfu/g
Yeasts & Moulds	Max 1,000cfu/g
E. Coli	Negative/10g
Salmonella	Negative/25g
Coliforms	Negative/10g
Staphylococcus aureus	Negative/10g

Heavy Metal Limits

Total Heavy metals	Max 20ppm
Lead (Pb)	Max 3ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 1ppm

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FDA number: 16806073982

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Registered in England No: 3590758 VAT No: GB 711 6598 32

Registered office: 203 Lancaster Way Business Park, Ely, Cambridgeshire, CB6 3NX, UK.

Additional Technical Information

Raw Material Full Botanical / Chemical Name	Boswellia serrata
Part Used	Bark/gum Resin
The material is Food Grade	Yes
Ratio of Material	6-10:1
Solvent used	Water & ethanol 7:3
Cultivated / Wild	Wild
Harvest Method	Manual
Harvest Period	May to October
Harvest Stage (age of the plant)	1
Country of Origin	Ethiopia
Country of Manufacture	China
Solubility in Alcohol	Soluble in alcohol
Solubility in Water	Partially Soluble in water
Shelf Life from Date of Manufacture	Min 3 years
Pharmacopeia Standard Used	CP
Suitable for Vegetarians?	Yes
Suitable for Vegans?	Yes
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.

Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
Boswellia serrata extract	Active ingredient	90~95%	Boswellia serrata
Maltodextrin	Carrier	5~10%	Corn

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

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Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	No	No	N/A
Nut and Nut Derivatives <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i>	No	No	N/A
Sesame Seeds and Sesame Seed Derivatives	No	No	N/A
Milk and Milk Derivatives (including lactose)	No	No	N/A
Egg and Egg Derivatives	No	No	N/A
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)</i>	No	No	N/A
Soya and Soya Derivatives	No	Yes	No
Lupin and Lupin Derivatives	No	No	N/A
Mustard and Mustard Derivatives	No	No	N/A
Celery or Celery Derivatives (including Celeriac)	No	No	N/A
Fish and Fish Derivatives	No	No	N/A
Molluscs and their Derivatives	No	No	N/A
Crustaceans and their Derivatives	No	No	N/A
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	N/A

Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Additives / E Numbers	No	No	N/A
Antioxidants	No	No	N/A
Ethylene Oxide	No	No	N/A
Gelatine	No	No	N/A
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Maize / Corn and any Derivatives	Yes	Yes	Compound ingredient
Legumes / Pulses	No	No	N/A
Rice and Rice Derivatives	No	No	N/A
Added Salt	No	No	N/A
Added Sugar / artificial or natural sweeteners	No	No	N/A
Aspartame	No	No	N/A
BHA / BHT (E320 / E321)	No	No	N/A
Caffeine	No	No	N/A
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Dextrose	No	No	N/A
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	No	No	N/A
Kiwi fruit	No	No	N/A
Polyols (sugar alcohols)	No	No	N/A
grape fruit	No	No	N/A
Sorbic Acid (E200, E203)	No	No	N/A
Any other Preservatives	No	No	N/A
Ethanol	Yes	Yes	solvent
Honey	No	No	N/A
Lactose	No	No	N/A
Yeast and Yeast Derivatives	No	Yes	No
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A

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Statements

<p>Confirmation of BSE / TSE Status This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.</p>	Yes
<p>This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.</p>	Yes
<p>Confirmation of GM Status This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.</p>	Yes
<p>Confirmation of Non-Irradiation Status This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.</p>	Yes
<p>Confirmation of Nandrolone Status This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.</p>	Yes
<p>Confirmation of IOC Product Status This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.</p>	Yes
<p>Confirmation of Animal Testing Status This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.</p>	Yes
<p>Confirmation of Pesticides Status This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.</p>	Yes
<p>Confirmation of Nanoparticles Status This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation, defines as follows: "Nanomaterial" means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".</p>	Yes
<p>Packaging Status We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging</p>	Yes
<p>Confirmation of PAH status This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations</p>	Yes

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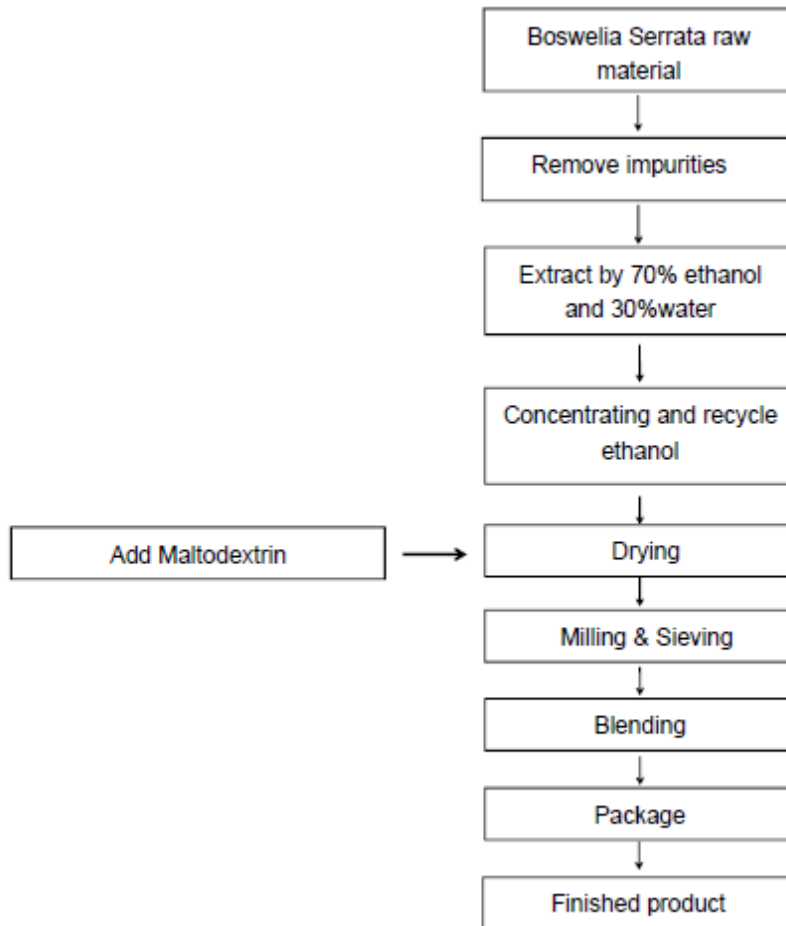
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Product Flow Chart



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Material Safety Data Sheet

To download this product's material safety data sheet, please click [here](#) and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the on-screen instructions to request one.

The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.

Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Updated to meet USA Standards	No
3	Updated to include density	No
4	The format has been updated, the Production Flow Chart has been added and the Assay has been updated from Min 65% Boswellic Acid to Min 65% Boswellic Acids due to a historic clerical error	No
5	Added method of assay: Titration (Boswellic acids = Total acids – Mineral acids). Bulk (0.15-0.3 g/ml) and tapped (0.3-0.6 g/ml) density updated Ash and Loss on Drying changed from Max 5% to Max 2% and Max 6% respectively. Country of origin/manufacture India Color definition changed from Off White to pale brown (seasonal variations)	Yes
6	Added the following information: <ul style="list-style-type: none"> Solvents used Methanol 100% <ul style="list-style-type: none"> Flow Chart Extract Ratio CAS Number EC/EINECS Number Molecular Formula Average Molecular Weight Solubility in water and in alcohol sections <ul style="list-style-type: none"> Extraction Type Suitable for Vegan/Vegetarian Section Seasonal colour variation statement Updated MSDS to Chemwatch format and changed Shelf Life to Min 3 years. Removed Pesticides Residues To comply as per USP section. General reformat.	Yes

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Version	Change	Customer Notification required Yes / No
7	<p>Changed sieve analysis from 100% pass 80 mesh to min 95% pass 80 mesh, ratio of material from 6:1 to 6-10:1. Bulk density from 0.15-0.3g/ml to 0.25 - 0.55g/ml, tapped density from 0.3-0.6g/ml to 0.45-0.75g/ml, ash from max 2% to max 5%, loss on drying from max 6% to max 5%, country of origin from India to Ethiopia, country of manufacture from India to China, solvents from methanol to ethanol and water, changed colour from off white-pale brown to off white-light yellow, total metals from max 10ppm to max 20ppm , amended flow chart due to updated supplier information added 5-10% maltodextrin from corn, coliforms and staphylococcus Aureus results</p> <p>removed CAS and EEC numbers, molecular formula and weight, removed PH general reformat and update to a change in supplier</p>	Yes

Document Approval

Originator	Approver
 Alan Feetham QC Technician	 Shannon McKenna Assistant Quality Manager
<small>X</small> 05/09/2019 15:52 - DocsVault	<small>X</small> 05/09/2019 15:55 - DocsVault

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