

PRODUCT TECHNICAL DOSSIER

SCUTELLARIA EXTRACT (SKULLCAP) 30% BAICALIN

Product Code:

P19120

Raw Material Full Name:

Scutellaria Extract 30% Baicalin

Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms:

Scutellaria Baicalensis Georgi

This material is Food Grade:

✓

Vegan / Vegetarian Status:

✓

Limit/Range/Specification:

Baicalin Min 30.0%

Ratio of Material:

5-6:1

Solubility in Water:

Partially Soluble

Solubility in Alcohol:

Partially Soluble

Particle Size:

80 Mesh

Percentage passed through:

Min 95%

Bulk Density:

0.35g/ml – 0.65g/ml

Tapped Density:

0.45g/ml – 0.75g/ml



Loss on Drying:

Max 5%

Residue on Ignition:

Max 5%

Country of Origin:

China

Country of Origin of the Manufacture:

China

Base Source/Start Material:

Root of the *Scutellaria Baicalensis* Georgi

Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented:

Plant

Solvents used:

70% Ethanol / 30% Water

What is the extraction/processing used? What solvents are used and at what ratio's?

70% Ethanol / 30% Water

Material is:

100%

Compound Ingredients Origin, Function and Percentages:

None

Shelf Life from Date of Manufacture:

Min 2 Years

Storage Conditions:

Store in cool and dry place. Keep away from strong light and heat.



Appearance (Fine/Crystals/Crystalline/Hygroscopic):

Fine Powder

Colour:

Light Brown/Yellow (**)

Flavour/Taste:

Characteristic

Odour:

Characteristic

Do any of the parameters change in different seasons?

Yes (**) Please note the colour of this natural material could be subject to slight change due to many factors such as seasonal variations.

Microbiological Test

Total Viable Count:

Max 10,000cfu/g

Yeast & Moulds:

Max 300cfu/g

Coliforms:

Negative/10g

E.Coli:

Negative/10g

Salmonella:

Negative/25g

Staphylococcus Aureus:

Negative/10g



Heavy Metals

Total Heavy Metals:

Max 10ppm

Lead (Pb):

Max 3ppm

Cadmium (Cd):

Max 1ppm

Mercury (Hg):

Max 0.1ppm

Arsenic (As):

Max 1ppm

Pharmacopeia Standard Used:

CP

There are no nuts in this recipe; however we cannot guarantee that the raw materials entering the site are nut free.

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



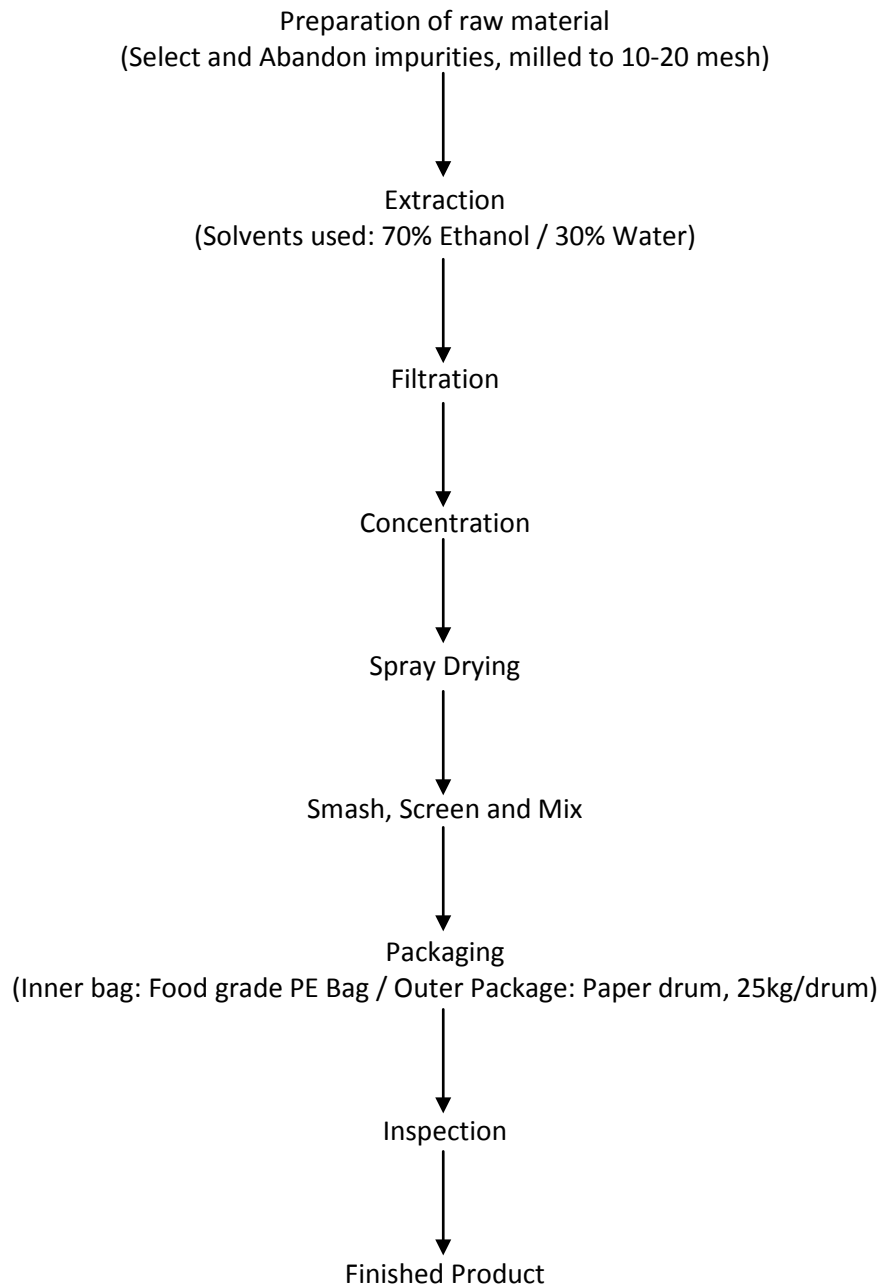
ALLERGENS	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	If YES, Please Comment
Peanuts and Peanut Derivatives (There are no nuts in this recipe, however CCL cannot guarantee that the raw materials entering the site are nut free.)	NO	NO	
Other Nut and Nut Derivatives <i>Almond (Amygdalus 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> (There are no nuts in this recipe, however CCL cannot guarantee that the raw materials entering the site are nut free.)	NO	NO	
Sesame Seeds and Sesame Seed Derivatives	NO	NO	
Other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	NO	NO	
Milk and Milk Derivatives (including lactose)	NO	NO	
Egg and Egg Derivatives	NO	NO	
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (<i>wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass</i>)	NO	NO	
Soya and Soya Derivatives	NO	NO	
Lupin and Lupin Derivatives	NO	NO	
Mustard and Mustard Derivatives	NO	NO	
Celery or Celery Derivatives (including Celeriac)	NO	NO	
Fish and Fish Derivatives	NO	NO	
Molluscs and their Derivatives	NO	NO	
Crustaceans and their Derivatives	NO	NO	
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	NO	NO	



ADDITIVES / CONTAMINANTS / DIETARY REQUIREMENTS	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	If YES, Please Comment
Additives	NO	NO	
Antioxidants	NO	NO	
Ethylene Oxide	NO	NO	
Gelatine	NO	NO	
Flavourings (Artificial / Nature Identical / Natural / Smoked)	NO	NO	
Maize / Corn and any Derivatives	NO	NO	
Legumes / Pulses	NO	NO	
Rice and Rice Derivatives	NO	NO	
Added Salt	NO	NO	
Added Sugar / artificial or natural sweeteners	NO	NO	
Aspartame	NO	NO	
BHA / BHT (E320 / E321)	NO	NO	
Caffeine	NO	NO	
Colours (Artificial / Nature Identical / Natural / Smoked)	NO	NO	
Dextrose	NO	NO	
Dioxins	NO	NO	
MSG (Added and Naturally Occurring E621) or Glutamates (E620 to E625)	NO	NO	
Nucleotides (E627, E630, E631, E635)	NO	NO	
Polyols (sugar alcohols)	NO	NO	
Benzoates (E210 / E219)	NO	NO	
Sorbic Acid (E200, E203)	NO	NO	
Any other Preservatives	NO	NO	
Ethanol	YES	YES	Ethanol is used in extraction process
Honey	NO	NO	
Lactose	NO	NO	
Yeast and Yeast Derivatives	NO	NO	
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	NO	NO	
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	NO	NO	



PRODUCTION FLOW CHART



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.

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.

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 regulations 1829/2003/EC and 1830/2003/EC.

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 1999/3/EC.

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.

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.

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 regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23rd February 2005 and commission Regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.

CONFIRMATION OF NANOPARTICLE STATUS

This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation 2011/696/EU, 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".



MATERIAL SAFETY DATA SHEET

Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

Product Name: Scutellaria Extract (Skullcap) 30% Baicalin
Product Code: P19120
Botanical Name: Scutellaria Baicalensis Georgi
Company: Cambridge Commodities Limited
Lancaster Way, Ely, Cambridgeshire, CB6 3NX
Tel: 01353 667258. Email: qa@c-c-l.com

Section 2 Hazards Identification

Name: Scutellaria Extract
CAS Number: N/A
% by Weight: 100%

Section 3 Composition/Information on Ingredients

Potential Acute Health Effects: Slightly hazardous in case of skin contact (Irritant), of eye contact (Irritant), of ingestion, of inhalation.
Carcinogenic effects: N/A
Mutagenic effects: N/A
Teratogenic effects: N/A
Developmental Toxicity: N/A

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4 Emergency and First Aid Measures

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious skin contact: N/A
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious inhalation: N/A



Ingestion:	Do not induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar tie, belt or waistband.
Serious ingestion:	Not available.

Section 5 Fire-fighting measures

Flammability of the product	May be combustible at high temperature.
Auto-ignition temperature:	N/A
Flash Points:	N/A
Flammable Limits:	N/A
Products of Combustion:	N/A
Fire Hazards in Presence of Various Substances:	Slightly flammable to flammable in presence of heat.
Explosion Hazards in presence of Fire Fighting Media and Instructions:	Small Fire: Use Dry chemical powder. Large Fire: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards:	As with most organic solids, fire is possible at elevated temperatures.
Special Remarks on explosion Hazards:	Fine dust dispersed in air in sufficient concentrations, and in presence of an ignition source is a potential dust explosion hazard.

Section 6 Accidental Release Measures

Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7 Handling and Storage

Precautions:	Keep away from heat. Keep away from sources of ignition. Ground all equipment container material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.
Storage:	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Engineering Control:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection:	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/Certified respirator or equivalent. A dust respirator is only necessary if concentration of airborne particulates has exceeded the exposure limits. Gloves.
Personal protection in case of a Large spill:	Splash goggles. Full Suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Exposure Limits:	Particulates not otherwise regulated (Nuisance dust): 15(mg/m ³) from OSHA (PEL) [United States] inhalation total. TWA: 5(mg/m ³) from OSHA (PEL)[United States] inhalation respirable. Consult local authorities for acceptable exposure limits.

Section 9 Physical and Chemical Properties

Physical state and appearance:	Solid. (Powdered solid)
Odour:	N/A
Taste:	N/A
Molecular Weight:	N/A
Colour:	Light Brown/Yellow (**)
ph (1% soln/water):	N/A
Boiling point:	N/A
Melting point:	N/A
Critical temperature:	N/A
Specific gravity:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Volatility:	N/A
Odour threshold:	N/A
Water/oil Dist. Coeff.:	N/A
Ionicity (in water):	N/A
Dispersion properties:	N/A
Solubility:	Partially Soluble



Section 10 Stability and Reactivity

Stability:	The product is stable.
Instability:	N/A
Condition of instability:	Excess heat, incompatible materials
Incompatibility with various Substances:	Reactive with oxidizing agents
Corrosivity:	Non-corrosive in presence of glass
Special remarks on reactivity:	N/A
Special remarks on Corrosivity:	N/A
Polymerization:	Will not occur

Section 11 Toxicological Information

Routs of entry:	Inhalation. Ingestion.
Toxicity to animals:	LD50: Not available LC50: Not available
Chronic effects on humans:	N/A
Other Toxic effects on humans:	Slightly hazardous in case of skin contact (irritant), of inhalation. Non-hazardous in case of ingestion.
Special Remarks on Toxicity to animals:	N/A
Special remarks on chronic effects on Humans:	N/A
Skin:	May cause skin irritation.
Eye:	May cause eye irritation by mechanical action.
Inhalation:	May cause respiratory tract irritation by mechanical action.
Ingestion:	Ingestion of large amounts may cause gastrointestinal tract irritation.

The toxicological properties of this substance have not been fully investigated.

Section 12 Ecological Information

Ecotoxicity:	N/A
BOD5 and COD:	N/A
Products of biodegradation:	Possible hazardous short term degradation products are not likely. However, long term degradation products may rise.
Toxicity of the products of Biodegradation:	N/A
Special remarks on the products of Biodegradation:	N/A



Section 13 Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 Transport Information

DOT Classification: Not a DOT controlled material.
Identification: N/A
Special Provisions for transport: N/A

Section 15 Regulatory Information

Federal and state regulations: No products were found
Other regulations: N/A
Other classifications: WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC): This product is not classified according to the EU regulations.
HMIS (USA): Health hazard: 1 Fire hazard: 1 Reactivity: 0 Personal protection: E
National Fire protection Association (USA): Health: 1 Flammability: 1 Reactivity: 0
Protective equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved / certified respirator or equivalent. Safety glasses.

Section 16 Other Information

This advice is given by Cambridge Commodities Ltd who accepts no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterised or unknown.

This 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.



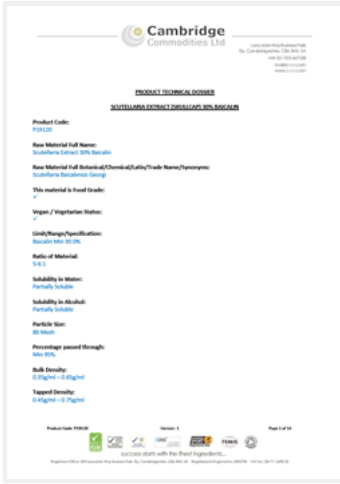
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Document Approval

Originator Job Title	QC Technician	Approver Job Title	Quality Specialist
 Adam Mulcahy (Mar 14, 2016)		 Nanci-Marie Smith (Mar 14, 2016)	





P19120-Scutellaria Extract (Skullcap) 30% Baicalin-Technical Dossier

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