

## Product Technical Dossier

Product	Rhodiola Rosea Extract 3% Rosavin
CCL Product Code	P10878

## Specification Details

	Specification	Method
Means of Identification	Identical to R.S. sample	HPTLC
Rosavins	≥3.0%	HPLC
Salidroside	≥1.0%	HPLC
Polyphenols	≥30.0%	UV
Appearance	Fine Powder	Organoleptic
Colour	Red Brown	Organoleptic
Aroma	Characteristic	Organoleptic
Flavour	Characteristic	Organoleptic
Sieve Analysis % passed	100% through 80 mesh	USP36<786>
Loss on Drying	≤5.0%	Eur.Ph.7.0<2.8.17>
Ash	≤5.0%	Eur.Ph.7.0<2.4.16>
Bulk Density	0.3-0.6g/mL	Eur.Ph.7.0 <2.9.34>
Impurities/Residual Solvents	Meet Eur.Ph.7.0 <5.4>	Eur.Ph.7.0<2.4.24>

## Microbiological Limits

Total Viable Count	≤10,000cfu/g	USP36<61>
Yeasts & Moulds	≤1,000cfu/g	USP36<61>
E. Coli	Negative/10g	USP36<2022>
Salmonella	Negative/25g	USP36<2022>

## Heavy Metal Limits

Lead (Pb)	≤3.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS
Cadmium (Cd)	≤1.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS
Mercury (Hg)	≤0.1 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS
Arsenic (As)	≤1.0 mg/kg	Eur.Ph.7.0<2.2.58>ICP-MS

## Additional Testing

Residual Pesticides	Meet USP36<561>	USP36<561>
---------------------	-----------------	------------



## Additional Technical Information

Raw Material Full Botanical / Chemical Name	Rhodiola Rosea
Part Used	Root
The material is Food Grade	Yes
Ratio of Material	8:1
Solvent used	Water and Ethanol
Cultivated / Wild	Cultivated
Harvest Method	Manual
Harvest Period	July to September
Harvest Stage (age of the plant)	When the stem withers
Country of Origin	China
Country of Manufacture	China
Solubility in Alcohol	Partial
Solubility in Water	Partial
Tariff Code	1302199099
Shelf Life from Date of Manufacture	Min 36 Months
Suitable for Vegetarians?	Yes
Suitable for Vegans?	Yes
Storage Conditions	Store in a well-closed container, away from moisture, light, oxygen.

## Compound Ingredients Origin, Function and Percentages

Ingredients	Function	% composition	Source
Rhodiola Rosea Extract	Dietary Supplement	100%	Rhodiola Rosea

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



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	No
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	No
Sesame Seeds and Sesame Seed Derivatives	No	No	No
Milk and Milk Derivatives (including lactose)	No	No	No
Egg and Egg Derivatives	No	No	No
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barleygrass)</i>	No	No	No
Soya and Soya Derivatives	No	No	No
Lupin and Lupin Derivatives	No	No	No
Mustard and Mustard Derivatives	No	No	No
Celery or Celery Derivatives (including Celeriac)	No	No	No
Fish and Fish Derivatives	No	No	No
Molluscs and their Derivatives	No	No	No
Crustaceans and their Derivatives	No	No	No
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	No

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	No
Antioxidants	No	No	No
Ethylene Oxide	No	No	No
Gelatine	No	No	No
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	No
Maize / Corn and any Derivatives	No	No	No
Legumes / Pulses	No	No	No
Rice and Rice Derivatives	No	No	No
Added Salt	No	No	No
Added Sugar / artificial or natural sweeteners	No	No	No
Aspartame	No	No	No
BHA / BHT (E320 / E321)	No	No	No
Caffeine	No	No	No
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	No
Dextrose	No	No	No
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	No	No	No
Kiwi fruit	No	No	No
Polyols (sugar alcohols)	No	No	No
grape fruit	No	No	No
Sorbic Acid (E200, E203)	No	No	No
Any other Preservatives	No	No	No
Ethanol	Yes	Yes	Used in Extraction
Honey	No	No	No
Lactose	No	No	No
Yeast and Yeast Derivatives	No	No	No
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	No
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	No

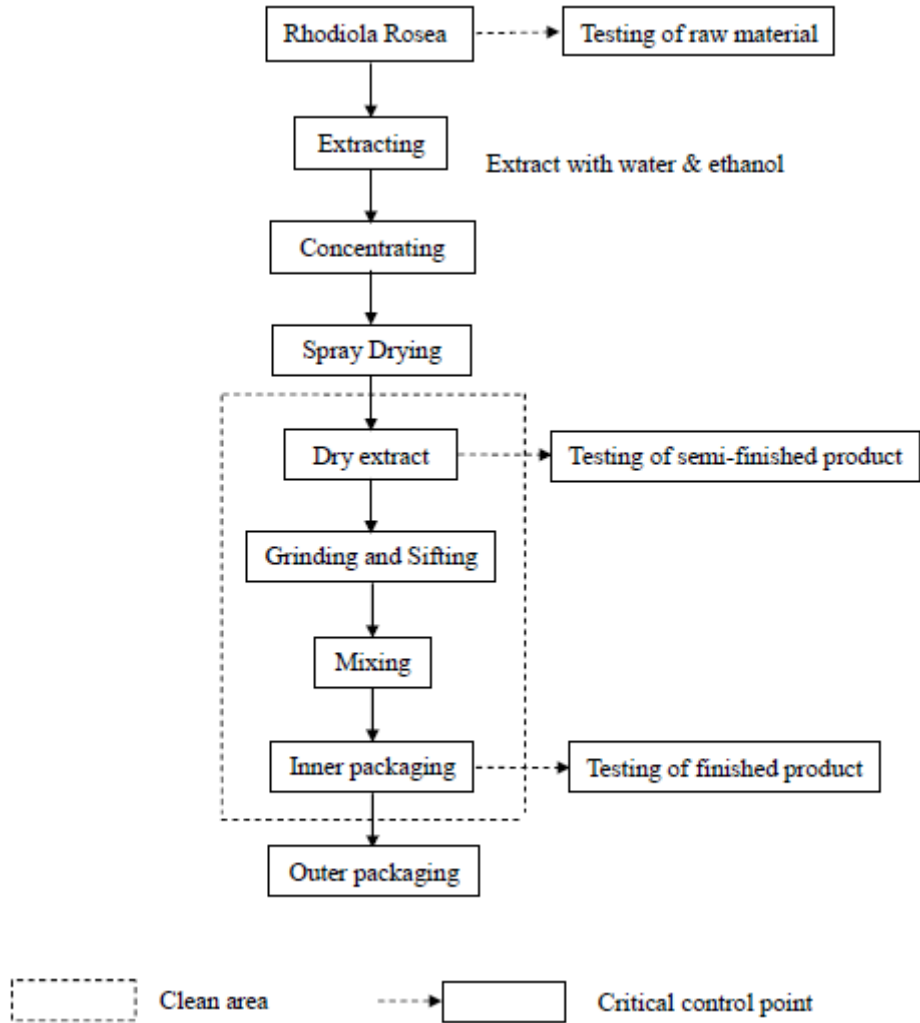


## Statements

<b>Confirmation of BSE / TSE Status</b> 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.	Yes
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.	Yes
<b>Confirmation of GM Status</b> This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
<b>Confirmation of Non-Irradiation Status</b> This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
<b>Confirmation of Nandrolone Status</b> 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.	Yes
<b>Confirmation of IOC Product Status</b> 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.	Yes
<b>Confirmation of Animal Testing Status</b> 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.	Yes
<b>Confirmation of Pesticides Status</b> This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
<b>Confirmation of Nanoparticles Status</b> 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".	Yes
<b>Packaging Status</b> We hereby certify that the packaging used in the above mentioned material conforms to EU regulations and subsequent amendments on food grade packaging	Yes



## Product Flow Chart



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	Added Rosavins, Salidroside & Polyphenols specifications	Yes

#### Document Approval

Originator Job Title	QC Team Leader	Approver Job Title	Assistant Quality Manager
<i>Ash Bean</i> Ash Bean (Jan 24, 2018)		<i>Richard Cecil</i>	










# P10878 - Rhodiola Rosea Extract 3% Rosavin - Technical Dossier

Adobe Sign Document History

01/24/2018

Created:	01/24/2018
By:	Ash Bean (ash.bean@c-c-l.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAIvwe7-WygieBtW1_le5pSYZNEFgRBuIX

## "P10878 - Rhodiola Rosea Extract 3% Rosavin - Technical Dossier" History

-  Document uploaded by Ash Bean (ash.bean@c-c-l.com) from Acrobat  
 01/24/2018 - 5:12:19 AM PST - IP address: 81.145.42.226
-  Document e-signed by Ash Bean (ash.bean@c-c-l.com)  
 Signature Date: 01/24/2018 - 5:12:47 AM PST - Time Source: server- IP address: 81.145.42.226
-  Document emailed to Richard Cecil (Richard.Cecil@c-c-l.com) for signature  
 01/24/2018 - 5:12:48 AM PST
-  Document viewed by Richard Cecil (Richard.Cecil@c-c-l.com)  
 01/24/2018 - 5:13:53 AM PST - IP address: 193.118.78.190
-  Document e-signed by Richard Cecil (Richard.Cecil@c-c-l.com)  
 Signature Date: 01/24/2018 - 5:14:26 AM PST - Time Source: server- IP address: 81.145.42.226