

CurrantCraft® 8%



Standardized Black Currant Powder, 8% (*Ribes nigrum*)

Product Code: B0140087 Date: October 2019

Product Specification

Product Description: Pure Eruopean black currant (*Ribes nigrum*) extract; processed without solvent via physical membrane separation and spray-dried with maltodextrin as an excipient; standardized to a minimum anthocyanin content of 8%

Product Properties

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Color	Intensely dark red	
Appearance	Powder, uniform particles, hygroscopic	
Taste	Characteristic of black currant; astringent	
Odor	Characteristic of black currant	
Mesh size	> 98% through 60 mesh (< 250 μm)	
Excipient	Maltodextrin (not genetically engineered, corn-based)	
Solubility	Soluble in water and water/alcohol mixtures	
Extract ratio	48:1	
Identity	HPLC anthocyanin profile unique to black currant	
Plant part used	Berries (fruit)	

Analytical Values	Spec.		
Anthocyanins (Expr. as cyanidin-3-glucoside; pH-Diff.)	8.00 - 10.60	g/100 g	
Polyphenols (Expr. as catechin; Folin-Ciocalteu)	10.90 - 17.10	g/100 g	
Moisture (Loss on drying; 105° C; 30 sec.)	2.0 - 8.0	%	
Total acidity (Expr. as citric acid; anhydr.; pH 8.1)	7.0 - 15.0	g/100 g	

Heavy Metals and Pesticides		Spec.		
Lead (ICP-MS)	< 3	ppm		
Arsenic (ICP-MS)	< 0.5	ppm		
Cadmium (<i>ICP-MS</i>)	< 1	ppm		
Mercury (ICP-MS)	< 0.1	ppm		
Pesticides	Pesticide standards d	Pesticide standards defined in the EC Regulations n. 396/2005,		
	n. 149/2008, and n. 8	39/2008		

Microbiological Values < 20Yeast (Sabouraud Agar, 28°C, 5 d) CFU/g Molds (Sabouraud Agar, 28°C, 5 d) < 20 CFU/g Total plate count (ISO 4833) < 10,000 CFU/g E. coli (COLI ID Agar, 37°C, 24 h) 0 CFU/g Salmonella (ISO 6579) CFU/25 g Absent

Country of Origin: Italy (finished product), Poland and France (raw materials)

Packaging: Packed in pails of 5 kg net

Storage: The product must be stored in a dark, cool, and dry area. Keep the package well-sealed since the product is hygroscopic.

Color may change at the end of shelf life.

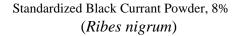
Best Used By: 36 months after production date under proper storage conditions

Quality Control

The information contained herein is, to the best of our knowledge, correct. The data outlined and the statements made are intended only as a source of information. No warranties, expressed or implied, are made. On the basis of this information, it is suggested that you evaluate the product on a laboratory scale prior to use in a finished product.



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Composition Statement

We hereby certify that, for the above named product, the composition is as follows:

Genus and species: *Ribes nigrum* **Plant part used:** Berries (fruit)

Ingredients: Black liquid extract (74-68%) and maltodextrin (32-26%)

Country of origin: Italy (manufacturing), Poland and France (berries)

Harmonized code: 3203.00 **Final form:** Powder

GMO Statement

The above named product and any excipients used in the manufacturing process are not genetically engineered.

Gluten-Free Statement

The above named product is entirely of fruit/vegetable origin. It is not produced from and does not contain any gluten or gluten byproducts; therefore, it is considered gluten-free.

Vegan Statement

The above named product is entirely of fruit/vegetable origin and is not produced from any animal products or byproducts; therefore it is considered vegan-friendly.

BSE/TSE Statement

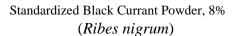
The above named product is risk free for BSE/TSE because it is not processed with any meat products or by-products. Furthermore, no meat products or by-products are manufactured or processed on the premises.

Irradiation and Sterilization Statement

The above named product has not been irradiated during the manufacturing process, nor has any chemical sterilization method been used. We also confirm that it has not been exposed to ethylene oxide (EtO) and is considered an EtO-free product. The product has been flash-pasteurized.



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ARTEMIS
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Specialists in Berryceuticals

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Nutritional Profile

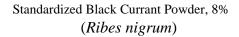
Mean values per 100 g

		war verses ber 100 8
Calories (kcal)	361	kcal
Calories (kJ)	1535	kJ
Fat	0.1	g
Saturated Fat	< 0.1	g
Carbohydrates	88.8	g
Sugars	23.5	g
Protein	1.3	g
Salt	0.040	g

As with any organic material, there may be some variation in the nutritional composition. The following values are being supplied to you to aid in your development work, but should not be used solely to determine your nutrient labeling. You may need to analyze for those nutrients as they occur in your final product as required by the Code of Federal Regulations Title 21; section 101.9.



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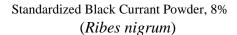
Allergen Statement

Description of Allergen	Present in the Product	Source	Present in Other Products Mfg. on the Same Line	Present in the Same Mfg. Plant
Artificial colors/preservatives	No		No	No
Autolyzed yeast	No		No	No
Celery	No		No	No
Cereal proteins (include HVP)	No		No	No
Corn or corn products	Yes		Yes	Yes
Cottonseed flour	No		No	No
Egg or egg products	No		No	No
Fish or fish products	No		No	No
Gluten	No		No	No
Milk or milk-derived products	No		No	No
Mustard or mustard products	No		No	No
Peanuts or peanut products	No		No	No
Seeds or seed products	No		No	No
Sesame or sesame products	No		No	No
Shellfish, crustaceans	No		No	No
Soybeans or soybean products	No		No	No
Sulfites	No		Yes	Yes
Tree nuts (almond, brazil nut, cashew, chestnut,	No		No	No
hazelnut, pine nuts, pistachio, pecan, macadamia,				
walnut)				
Wheat or wheat products	No		No	No
Yeast or yeast products	No		No	No

Effective procedures are in place to avoid cross-contamination of the product with the allergens not present in the product but noted in columns III and IV.



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Safety Data Sheet

Section I	Product and Company Identification		
Product:	CurrantCraft® 8%	Product code:	B0140087
Supplier:	Artemis International, Inc.	Phone:	260-436-6899
	3711 Vanguard Dr. – Suite A	Fax:	260-478-6900
	Fort Wayne, IN 46809-3301 USA		
Section II	Hazard Identification		
Food, not a hazardous su	bstance or mixture.		
Physical hazards:	Not classified as a physical hazard		
Health hazards:	Not classified as a health hazard		
Environmental	Not classified as an environmental hazard		
hazards:			
Specific hazards:	Dusts may irritate the respiratory tract, skin, and eye	s.	
Main symptoms:	Upper respiratory tract irritation, coughing, irritation	of eyes and mucous memb	ranes
Section III	Composition/Ingredients		
Ingredients:	Black currant extract, maltodextrin excipient		
Section IV	First Aid Measures		
Eye contact:	Dusting of powder may cause eye irritation. Flush ey	es with water for 15 minute	es. Get medical attention
· ·	if symptoms develop and persist.		
Skin contact:	Product is not irritating to skin; however, flush with	water or soap and water for	15 minutes or until all
	traces have been removed. Seek medical attention if	symptoms develop and per	sist.
Inhalation:	* * *		
	needed, seek medical attention.	•	
Ingestion:	Product is not known to result in significant adverse	health effects. If swallowed	l, rinse mouth and throat
	with water. Drink water.		
Section V	Fire Fighting Measures		
Flammability:	Product is not combustible.		
Extinguishing media:	Product is not flammable. Use water, carbon dioxide	, dry powder extinguisher,	or other media
	appropriate for materials actually involved in fire.		
Special fire fighting	Follow the general fire precautions indicated in the v	vorkplace.	
procedures:			
Unusual fire and	None		
explosion hazards:			
Section VI	Accidental Release Measures		
Leak and spill	Prevent further spill of material, contain material alre		
procedures:	Flush spill area with water spray. CAUTION! Mater	ial on wet floor may be slip	pery.
Personal precautions:	Avoid inhalation of dust and contact with skin and ex	yes. Wear appropriate prote	ctive equipment and
	clothing during clean-up.		
Methods for cleaning	Avoid dust formation. Remove small spills with vacu	uum cleaner.	
up:			
Environmental	Prevent further leakage or spillage.		
precautions:			
Section VII	Handling and Storage		,
Handling procedures:	No special equipment required. Avoid inhalation of		
Hygiene practices:	Follow food GMPs. Avoid contact with skin, eyes, a		
Storage:	Store in a cool, dry location. Keep container closed.	Normal room ventilation sa	tisfactory.



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Section VIII Exposure Controls and Personal Protection

Evaluation and Section Section

Engineering controls: Eyewash fountains and safety showers should be easily accessible.

Respiratory protection: Provide adequate ventilation. Respirator not normally required. In case of inadequate ventilation or risk

of inhalation of dust, use suitable respiratory equipment with particle filter.

Protective gloves: Avoid skin contact. Wear gloves for extended or repeat skin contact with powder.

Eye protection: Avoid eye contact. Wear safety glasses while handling powder.

Clothing: Standard work clothing; wash regularly.

Section IX Physical and Chemical Characteristics

Appearance: Wine-red powder Boiling point: N/A
Odor: Characteristic of black Freezing point: N/A

currant Freezing point:

Physical state: Solid Melting point: Not known

pH: Not known
Solubility in water: Soluble

Vapor pressure: Not known
Vapor density: Not known

Density: Not known

Section X Stability and Reactivity

Chemical stability: Stable, no decomposition

Conditions to avoid: None known
Materials to avoid: None known
Hazardous None known

decomposition or

byproducts:

Hazardous Does not occur

polymerization:

Section XI Toxicological Information

No known toxic effects from acute or chronic exposure

Section XII Ecological Information

No known environmental impact. Product is biodegradable.

Section XIII Disposal Information

Waste disposal Incinerate or landfill in accordance with local, state, or federal regulations.

method:

Section XIV Transportation Information

Shipping information: Non-hazardous

Section XV Regulatory Information

None

Section XVI Other Information

Prepared: 10.8.19

Last Revision 10.8.19

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the producer's control, and therefore the users are responsible to verify this data under their own particular conditions, applications, and regulations to determine whether the product is suitable for their particular purposes, and they assume all risks of their use, handling, disposal, reliance upon, publication, or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures, or processes.

Quality Control

Melanie Bush

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