

# Technical Data Sheet

## CurrantCraft® 8%

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



**Product Code:** B0140087

## Product Specification

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

### Product Properties

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 ( <i>Expr. as delphinidin-3-rutinoside; pH-Diff.</i> )	8.00 – 10.60	g/100 g
Polyphenols ( <i>Expr. as catechin; Folin-Ciocalteu</i> )	8.00 – 16.00	g/100 g
Moisture ( <i>Loss on drying; 105° C; 30 sec.</i> )	0.0 – 8.0	%
Total acidity ( <i>Expr. as citric acid; anhydr.; pH 8.1</i> )	7.0 – 15.0	g/100 g

### Heavy Metals and Pesticides

		Spec.
Lead ( <i>ICP-MS</i> )	< 0.6	ppm
Arsenic ( <i>ICP-MS</i> )	< 0.5	ppm
Cadmium ( <i>ICP-MS</i> )	< 0.5	ppm
Mercury ( <i>ICP-MS</i> )	< 0.1	ppm
Pesticides	The processed fruit conforms to the pesticide standards defined in the FDA and EPA regulations.	

### Microbiological Values

		Spec.
Yeast ( <i>Sabouraud Agar, 28°C, 5 d</i> )	< 20	CFU/g
Molds ( <i>Sabouraud Agar, 28°C, 5 d</i> )	< 20	CFU/g
Total plate count ( <i>ISO 4833</i> )	< 3,000	CFU/g
<i>E. coli</i> ( <i>COLI ID Agar, 37°C, 24 h</i> )	0	CFU/g
<i>Salmonella spp.</i> ( <i>ISO 6579</i> )	Absent	/25 g

**Country of Origin:** Italy (finished product), Europe (raw materials)

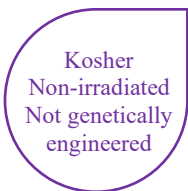
**Packaging:** Packed in an aluminum bag in a plastic pail or corrugated box, 5 kg net

**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 Assurance

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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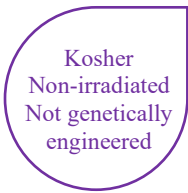
## Composition Statement

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 currant extract, maltodextrin  
**Country of origin:** Italy (manufacturing), Europe (berries)  
**Final form:** Powder

## Quality Statements

<b>GMO Statement/BE Disclosure Statement</b>	The above named product is not genetically engineered and has not been manufactured with bioengineered ingredients based on 7 CFR 66.6.
<b>Gluten Statement</b>	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.
<b>Vegan Statement</b>	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
<b>BSE/TSE Statement</b>	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.
<b>Irradiation and Sterilization Statement</b>	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.
<b>Residual Solvent Statement</b>	The manufacturing process for the above named product does not utilize organic solvents.
<b>WADA Statement</b>	No substances listed in the World Anti-Doping Code (WADA) are intentionally added into the above named product. Furthermore, no WADA banned substances listed by the NFL/NFLPA or NSF are intentionally added to this product.
<b>Melamine Statement</b>	The above named product is melamine-free as it does not contain any melamine at any stage in the manufacturing process. Furthermore, no melamine products or by-products are manufactured or processed on the premises.
<b>Natural Statement</b>	The above-named product is a natural product prepared from fresh or frozen, unadulterated, mature fruit and has been processed in accordance with good manufacturing practices under sanitary conditions appropriate for food products. The materials which comprise the above-named product have been produced and handled without the use of sewage sludge.
<b>Continuing Guarantee</b>	The articles comprising each shipment or other delivery made by Artemis International, Inc. is hereby guaranteed, as of the date of such shipment, not adulterated or misbranded within the meaning of Federal Food, Drug and Cosmetic Act and complies with the Act and all applicable regulations. Further, such articles or article are not a misbranded, hazardous substance or banned hazardous substance within the meaning of those terms under the Federal Hazardous Substance Act. All products provided are in good conditions, not adulterated in any manner, are manufactured from sound raw material, and their production is carried out under sanitary conditions. These products, at the time of shipment, are sound, wholesome products fit for use in dietary supplements for human consumption. This guarantee is continuing and shall be in full force and effect until revoked in writing.



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## Nutritional Profile

### Mean values per 100 g

Calories (kcal)	341	kcal
Calories (kJ)	1,445	kJ
Fat	0.1	g
Saturated Fat	< 0.1	g
Carbohydrates	77.7	g
Sugars	20.0	g
Protein	1.4	g
Salt	0.0350	g

As with any natural 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.

## Lot Code Explanation

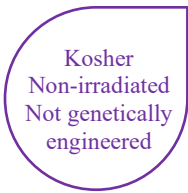
# L2401301234

L: Lot

24: Two digit year of manufacture

013: Three digit facility code

01234: Five digits chronological in order of batch produced



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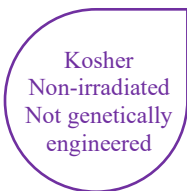


**Product Code: B0140087**

**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	Maltodextrin	Yes	Yes
Cottonseed flour	No		No	No
Egg or egg products	No		No	No
Fish or fish products	No		No	No
Gluten	No		No	Yes
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	No		No	No
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. 3711 Vanguard Dr. – Suite A Fort Wayne, IN 46809-3301 USA	Phone:	260-436-6899
		Fax:	260-478-6900

**Section II Hazard Identification**

Food, not a hazardous substance or mixture.	
Physical hazards:	Not classified as a physical hazard
Health hazards:	Not classified as a health hazard
Environmental hazards:	Not classified as an environmental hazard
Specific hazards:	Dusts may irritate the respiratory tract, skin, and eyes.
Main symptoms:	Upper respiratory tract irritation, coughing, irritation of eyes and mucous membranes

**Section III Composition/Ingredients**

Ingredients:	Black currant extract, maltodextrin excipient
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**Section IV First Aid Measures**

Eye contact:	Dusting of powder may cause eye irritation. Flush eyes with water for 15 minutes. 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 persist.
Inhalation:	Product may cause irritation of the nose and throat. If inhaled, remove personnel to fresh air and, if needed, seek medical attention.
Ingestion:	Product is not known to result in significant adverse health effects. If swallowed, 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 procedures:	Follow the general fire precautions indicated in the workplace.
Unusual fire and explosion hazards:	None

**Section VI Accidental Release Measures**

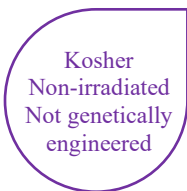
Leak and spill procedures:	Prevent further spill of material, contain material already spilled. Sweep up spilled material for disposal. Flush spill area with water spray. CAUTION! Material on wet floor may be slippery.
Personal precautions:	Avoid inhalation of dust and contact with skin and eyes. Wear appropriate protective equipment and clothing during clean-up.
Methods for cleaning up:	Avoid dust formation. Remove small spills with vacuum cleaner.
Environmental precautions:	Prevent further leakage or spillage.

**Section VII Handling and Storage**

Handling procedures:	No special equipment required. Avoid inhalation of dust. Use only with adequate ventilation.
Hygiene practices:	Follow food GMPs. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.
Storage:	Store in a cool, dry location. Keep container closed. Normal room ventilation satisfactory.

**Section VIII Exposure Controls and Personal Protection**

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.



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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
Odor: Characteristic of black currant
Physical state: Solid
pH: Not known
Solubility in water: Soluble
Density: Not known
Boiling point: N/A
Freezing point: N/A
Melting point: Not known
Vapor pressure: Not known
Vapor density: Not known

Section X Stability and Reactivity

Chemical stability: Stable, no decomposition
Conditions to avoid: None known
Materials to avoid: None known
Hazardous decomposition or byproducts: None known
Hazardous polymerization: Does not occur

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 method: Incinerate or landfill in accordance with local, state, or federal regulations.

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.