



**Quality Operating Guidelines
Customer Specification**

TITLE: CRANBERRY EXTRACT POWDER

UPC 94815

DATE: 4 May 2011

SUPERSEDES: 26 May 2010

PAGE: 1 of 2

PRODUCT DESCRIPTION:

Cranberry Extract - Powder is a fine, free-flowing, light red powder produced by freeze drying a liquid extract of cranberries (*Vaccinium macrocarpon*). The powder consists solely of cranberry solids and approximately 2% tricalcium phosphate added as an anti-caking aid. The freeze dried flakes are then milled into a fine powder to meet granulation specifications. It is processed in conformance to all provisions of the Food, Drug and Cosmetic Act.

SPECIFICATION	TOLERANCE	METHOD
Moisture	1.5% - 5%	Computrac
pH	2.2 – 4.2	pH meter (1% solution)
Total Organic Acids (citric + quinic + malic)	≤ 10%	Ion Chromotography Dionex DX-500IC (OSCI method)
Titrateable Acidity (as citric)	8% - 15% wt/wt	Titration
Solubility	Good No Lumps	5g powder will dissolve completely in 2 minutes in 100 ml of 50°F (10°C) water.
Bulk Density (Loose)	0.300 – 0.600 g/cc	Tare 200-ml cup. Funnel in product and level with a straight edge. Divide weight by volume to obtain density.
Appearance	Fine, free-flowing and dark pink to light red in color.	Visual
Flavor and Odor (of solution)	Typical cranberry flavor with no off notes.	Sensory
Proanthocyanidins (PACs)	≥ 1.5%	Total PACs by BL-DMAC method
Screen Analysis	99% through 30 mesh	Rotap with hammer, 5 minutes

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MICROBIOLOGICAL: Analysis represents an average sampling.	
Yeast	≤ 100 C.F.U. per gm
Mold	≤ 100 C.F.U. per gm
Aerobic Plate Count	≤ 1,000 C.F.U. per gm
<i>Escherichia coli</i>	Negative in 25 grams
<i>Salmonella</i>	Negative in 25 grams
<i>Staph. Aureus (coagulase positive)</i>	Negative in 25 grams

PACKAGING

Sealed foil-lined bag inside corrugated box with tamper-evident tape. Contains 30-lbs. (13.5 kg) powder net.

LABELING

All containers shall bear the following information: name of product including UPC, ingredients, net contents, manufacture date (year/Julian date) and/or lot number, Triangle K kosher certification, Ocean Spray® name and address.

INGREDIENT STATEMENT

Cranberry Extract Solids, Tricalcium Phosphate [anti-caking agent]

STORAGE RECOMMENDATIONS

Recommended shipping and storage conditions are 50°-70°F (10°-21°C), 50% relative humidity or less. Protect product from moisture.

EXPECTED SHELF-LIFE

At least three years when protected from moisture and excessive heat.

OCEAN SPRAY® WARRANTS ONLY THAT THE CRANBERRY EXTRACT POWDER, 94815 SOLD SHALL CONFORM TO THESE SPECIFICATIONS. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS, ARE EXCLUDED.