



INGREDIENT SPECIFICATIONS

PRODUCT CODE: 06055 (55 pounds); 06054 (100 pounds)

PRODUCT DESCRIPTION: NutriCran[®]90 spray-dried cranberry concentrate powder is made with non-GMO GRAS ingredients. Prepared with a unique process that results in a high quality, consistent powder. The process conforms to all provisions of the Food, Drug and Cosmetic Act. The constituents and the unit operations associated with its manufacture are consistent with current GMPs as set forth within 21 CFR part 110. No preservatives, flavorings or colorings are added.

SPECIFICATIONS	DESCRIPTIONS
Percent Cranberry Fruit Solids	90% minimum
Moisture	3.5% ± 1.5%
pH (10% Solution)	3.7 – 4.3
Titrateable Acidity (w/w)	8.5 – 13.0%
Solubility	Completely soluble in water
Particle Size	Through 30 mesh 100%; Through 100 mesh NLT 95%
Bulk Density (Tapped)	0.5 ± 0.1 g/ml
Appearance	Free flowing red powder
Color	Uniform cranberry red
Flavor	Typical of cranberry fruit, free from foreign flavors
Organic Acids	35% minimum (9% quinic acid typical)

MICROBIOLOGICAL	
Yeast and Mold	< 50/g
Standard Plate Count	< 500/g
E. Coli	Negative/25g
Salmonella	Negative/25g
Coliform	< 10/g

PROPERTIES	TYPICAL RANGE	METHODS
Total Phenolics	2.00 – 3.80%	Folin – Ciocalteu
Total Anthocyanins	0.15 – 1.00%	pH Differential
Total Proanthocyanidins	0.6 - 0.95% maximum	USDA HPLC
Antioxidant (ORAC)	175 – 400 µmol Trolox/g	ORAC
Antioxidant (DPPH)	55 – 70% radical inhibition	DPPH
Ellagic Acid	200 – 415 µg/g	HPLC
Quercetin	300 – 435 µg/g	HPLC

INGREDIENTS: Cranberry (*Vaccinium macrocarpon*) Juice Concentrate, Magnesium hydroxide, Tri-Calcium Phosphate.

PACKAGING: Polyethylene-lined multi-layer fiber drum. Net weight: 55 lb. or 100 lb. v

STORAGE RECOMMENDATIONS: Store in a cool, dry atmosphere not to exceed 80° F.

EXPECTED SHELF-LIFE: 36 months, when properly stored.