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| Ingredient Technical Brief  7th Annual Ocean Spray Cranberries, Inc. Student Product Development Competition | |
| **Cranberries – Red & Yellow Varietals:** | Cranberries prepared from the sound, mature berries of the commonly cultivated cranberry plant (Genus/species - *Vaccinium macrocarpon*). The product is prepared by grading to assure a wholesome product. No color requirements.  ‘Yellow Bell’ is the only native cranberry variety that is yellow at full maturity.  The fruit is small at an average of 1g/berry, usually pyriform, and may have a slight red blush.  The flavor is generally cranberry-like but the high skin-to-flesh ratio may give a more astringent/bitter taste and the aromatic notes have been described as floral.  Store at 0-32F until ready to use.   |  |  | | --- | --- | | **Frozen Cranberry Specifications** | | | **Form** | Frozen Whole Cranberries | | **Flavor, Aroma & Color** | Normal odor & flavor, free from off notes;  Red varietals are typical cranberry red; uniform, bright distribution of red, pink and white fruit.  Yellow varietals are generally yellow, but may have a slight red blush. | | **Size** | 98% of the berries must have a diameter of 9/32” min. | |
|  | **Nutritional Analysis Frozen Cranberries**  **Per 100 g unrounded**   |  |  | | --- | --- | | Calories | 47.81 | | Calories from Fat | 0 g | | Total Carbohydrates | 10.39 g | | Total Sugars | 4.10 g | | Added Sugars | 0 g | | Dietary Fiber | 4.46 g | | Protein | 0.55 g | | Total Fat | 0.45 g | | Saturated Fat | 0 g | | Trans Fat | 0 g | | Moisture | 88.21 g | | Vitamin A | 0.0 mg | | Vitamin C | 18.20 mg | | Calcium | 10.0 mg | | Magnesium | 6.00 mg | | Phosphorus | 10.30 mg | | Potassium | 73.0 mg | | Sodium | 3.0 mg | |
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| **Cranberry Seeds:** | Cranberry Seeds are obtained from sound, mature berries of the commonly cultivated cranberry plant (Genus/species - *Vaccinium macrocarpon*). Cranberry seeds are prepared by the mechanical separation of the wholesome cranberry pulp and then dried to a specific moisture. No additives, preservatives or other processing aids are added.  Stored Ambient.   |  |  | | --- | --- | | **Cranberry Seeds Specifications** | | | **% Moisture** | < 7.0 | | **Water Activity** | < 0.60 | | **Particle Size** | ≤ 12 mesh | | **Appearance, Aroma, & Flavor** | Characteristic deep red cranberry color; mild cranberry flavor & clean fruity aroma with no off-flavors or odors |     **Nutritional Analysis Cranberry Seeds**  **Per 100 g**   |  |  | | --- | --- | | Calories | 212.66 | | Calories from Fat | 104.76 | | Total Carbohydrates | 58.90 g | | Available Carbohydrates | 3.03 g | | Total Sugars | 2.28 g | | Added Sugars | 0 g | | Total Dietary Fiber | 55.87 g | | Soluble Fiber | 4.56 g | | Insoluble Fiber | 51.30 g | | Protein | 21.66 g | | Total Fat | 11.64 g | | Polyunsaturated Fat | 17.71 g | | Monounsaturated Fat | 2.61 g | | Saturated Fat | 0.82 g | | Trans Fat | 0.0 g | | Moisture | 5.56 g | | Ash | 2.24 g | | Vitamin E | 2.02 mg | | Calcium | 179.25 mg | | Magnesium | 185.67 mg | | Potassium | 495.67 mg | | Sodium | 4.19 mg | |
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| **Cranberry Juice Concentrate:** | Cranberry juice concentrate is viscous red liquid prepared from the extracted, depectinized and filtered juice of sound, clean cranberries (*Vaccinium macrocarpon)*.  Storage: Short Term: 35°F ± 5°F up to 30 days from date produced. Long term: Freeze at 0°F ± 10°F  To thaw: place in cool water bath for 30min-1hr and shake vigorously before  using.   |  |  | | --- | --- | | **Cranberry Juice Conc. Specifications** | | | **⁰Brix (@ 20⁰C)** | 50 +/- 0.05 | | **Titratable Acidity (% w/w as citric)** | Minimum 12.5 | | **Appearance & Aroma (as a concentrate)** | Clear; dark red color; cranberry aroma; sweet and sour taste with strong astringency. | | **Appearance, Aroma, & Flavor (as Beverage)** | Clear; dark red to bright red color; cranberry aroma; sweet and sour taste with moderate astringency. |       **Nutritional Analysis Cranberry Juice Concentrate Type-C**  **Per 100 g- unrounded**   |  |  | | --- | --- | | Calories | 206 | | Calories from Fat | 0 | | Total Carbohydrates | 51.3 g | | Total Sugars | 26.6 g | | Added Sugars | 0 g | | Dietary Fiber | 0.5 g | | Protein | 0.20 g | | Total Fat | 0 g | | Saturated Fat | 0 g | | Trans Fat | 0 g | | Cholesterol | 0 mg | | Moisture | 47.5 g | | Ash | 1.0 g | | Vitamin C | 0 mg | | Calcium | 34.2 mg | | Iron | 0.50 mg | | Magnesium | 28.0 mg | | Phosphorus | 24.7 mg | | Potassium | 463 mg | | Sodium | 18.2 mg | |