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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.

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| **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. |

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|  | **Nutritional Analysis Frozen Cranberries****Per 100 g unrounded**

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| 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.

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| **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**

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| --- | --- |
| 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°FTo thaw: place in cool water bath for 30min-1hr and shake vigorously beforeusing.

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| **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**

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| 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 |

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