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***Table 1. Granular Sucrose Specifications***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Attribute** |  |  | **Specification** |  |  | **Methods1** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Appearance** |  | White crystals or crystalline powder with no |  | SM-PR-420 |  |  |
|  |  |  | foreign materials |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Odor** |  | No off-odor |  | SM-PR-420 |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Odor After Acidification** |  | No off-odor |  | SM-PR-420 |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Taste** |  | Typically sweet with no off-taste |  | SM-PR-420 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Assay (Purity)** |  | 99.9% w/w minimum, calculated as 100% |  | Calculated impurities |  |  |
|  |  |  | sucrose minus ash, moisture and invert |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | **Ash** |  | 0.015% w/w (conductivity) maximum |  | ICUMSA GS 2/3-17 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Less than 35 ICUMSA Units (IU) |  | ICUMSA GS 2/3-10 |  |  |
|  |  | **Color** |  | 50 IU is the allowable maximum if the |  |  |  |  |  |
|  |  |  | confirmation test shows that syrup gives no |  |  |  |  |  |
|  |  |  |  |  | off-taste to products, and no color to Sprite |  |  |  |  |  |
|  |  |  |  |  | or other clear, lightly flavored beverages |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Floc Potential** |  | No floc formation present |  | SM-PR-270, ICUMSA |  |  |
|  |  |  |  |  |  | GS2/3-40 |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  | **Heavy Metal** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Arsenic (As)* |  | 0.1 mg/Kg (dry basis) maximum |  | ICUMSA GS2/3-23, |  |  |
|  |  |  |  |  |  | ICP-MS |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| BP-SP-116 |  | **Property of The Coca-Cola Company** |  | Page 1 of 3 |  |
|  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  | **Granular Sucrose** |  |
|  | **Specifications** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Attribute** |  | **Specification** |  |  | **Methods1** |  |
|  |  | *Copper (Cu)* |  | 1.0 mg/Kg (dry basis) maximum |  |  | ICUMSA GS 2/3-29, |  |
|  |  |  |  |  |  | ICP-MS |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Lead (Pb)* |  | 0.1 mg/Kg (dry basis) maximum |  |  | ICUMSA GS 2/3-24, |  |
|  |  |  |  |  |  | ISBT, ICP-MS |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Invert Sugar** |  | 0.04% w/w maximum |  |  | ICUMSA GS2/3-9/5 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Iron** |  | 1.0 mg/Kg (dry basis) maximum |  |  | ICUMSA GS 2/3/7/8- |  |
|  |  |  |  |  |  | 31, ICP-MS |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Loss on Drying (Moisture)** |  | 0.04% w/w maximum, or no more than |  |  | ICUMSA GS 2/1/3-15 |  |
|  |  |  |  |  | 0.06% w/w if used immediately |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Microbiological** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Mesophilic Total Count* |  | No more than 200 cfu per 10 g (dry sugar |  |  | SM-PR-685, ICUMSA |  |
|  |  |  | basis) |  |  | GS2/3-41, 43, ISBT |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Yeast* |  | No more than 10 cfu per 10 g (dry sugar |  |  | SM-PR-688, ICUMSA |  |
|  |  |  | basis) |  |  | GS 2/3-47, ISBT |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | No more than 10 cfu per 10 g (dry sugar |  |  |  |  |
|  |  | *Mold* |  | basis) |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Thermophilic Acidophilic* |  | No more than 1000 cfu/ 50 g (dry sugar |  |  | SM-PR-687 |  |
|  |  | *Bacteria (TAB)2* |  | basis) |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | *Guaiacol Producing TAB2* |  | Absent in 50 g (dry sugar basis) |  |  | SM-PR-687 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Quaternary Ammonium** |  | 2 mg/Kg (dry basis) maximum when used in |  |  | SM-PR-470 |  |
|  |  | **Compounds (QAC)** |  | the process |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Sediment** |  | 7 mg/Kg (dry basis) maximum gravimetric |  |  | SM-PR-415, ICUMSA |  |
|  |  |  | insolubles |  |  | GS2/3/9-19 |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Sulfur Dioxide** |  | 6.0 mg/Kg (dry basis) maximum |  |  | ICUMSA GS 2/1/7-33 |  |
|  |  |  |  |  |  | or GS 2/3-35 |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  | **Turbidity** |  | Not more than 20 ICUMSA Units (IU) |  |  | ICUMSA GS 2/3-18 |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



1. The methods referenced in the specifications are either internal or industry-recognized methods. If the business unit agrees with the supplier to use a method different from that listed in the specification, the method must be validated and available upon request. In the event of the dispute, the methods listed in the specification will take precedence.
2. TAB and Guaiacol-producing TAB test are required when the operation produces still, non-preserved, high acid beverages.

**Specifications**

*A still non-preserved high-acid beverage is a beverage that does not contain added preservatives, has a pH of less than pH 4.4 and has a carbonation of less than or equal to 1.7 volumes of carbon dioxide.*