



**Texas Citrus Exchange  
Quality Assurance Department  
Product Specification Sheet**

**Product Name:** Red Grapefruit Juice Concentrate for Manufacturing

**Product Number:** TC04100

**Quality Parameters:**

- I. Aroma Good, typical of red grapefruit juice. No fermented or caramelized odors.
- II. Color Good. (19-20 points) Typical of Rio Red grapefruit. CR values of 70+
- III. Defects Practically Free (18-20 points)
- IV. Flavor Good. (54-60 points) Typical of sound, mature grapefruit with no off notes or caramelized flavors.

**Analytical Parameters:**

- I. Brix (corrected for acidity) 64.5 +/- 2
- II. Brix/Acid Ratio
  - Minimum 9.5
  - Currently 10.5 to 12.5
  - Maximum 14
- III. pH Value  $\leq 4.0$
- IV. Free and Suspended Pulp  $\leq 10\%$
- V. Recoverable Oil  $\leq 0.020\%$

**Microbiological Parameters:**

- I. Howard Mold  $\leq 10\%$
- II. Standard Plate Count (SPC or TPC)  $\leq 5000$  cfu / gram
- III. Yeast and Molds  $\leq 2000$  cfu / gram
- IV. Thermophilic Acidophilus Bacteria (TAB) Negative
- V. Coliforms Negative
- VII. Heat Resistant Molds (HRM) Negative

**Packaging:**

- I. 55 gallon, 52 gallon net fill, open head steel drums with two polyethylene liners. Approximate net weight of 574 lbs. (260 kgs)
- II. Bulk tankers.

**Storage and Shelf-life**

Drummed product should be kept in the original packaging and stored at <32°F or <0°C. Product kept in these recommended conditions will have a shelf-life of 36 months.

**Country of Origin:**

The United States of America - Texas

**Ingredient Statement:**

This product is 100% Texas Red Grapefruit Juice. (*Citrus paradisi*)

**FDA Compliance:**

The concentrated grapefruit juice for manufacturing must meet the standards as defined in the "Standards of Identity for Grapefruit Juice" issued under the Federal Food, Drug and Cosmetic Act #146.132.

This product is manufactured using Current Good Manufacturing Practices outlined by the United States FDA.

TCX maintains a HACCP system for all juice products. This HACCP system is reviewed periodically by FDA for accuracy and execution.

**AIJN / Codex Alimentarius Compliance:**

The concentrated grapefruit juice for manufacturing meets Codex Standard 46-1981 and AIJN standard 6.2.

Justin Simpson  
Quality Assurance Manager  
  
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702 E. Expressway 83 / Mission, Texas 78572 / (956) 585-8321