



TECHNICAL DATA SHEET

GRAPEFRUIT ESSENCE OIL

DESCRIPTION

Our Grapefruit Essence oil is extracted from 100% Grapefruit (Citrus latifolia) Juice using evaporator distilling method. This high-quality product is intended for further manufacturing use only.

Country of Origin: United States of America

Technical Data

Compliance

ORGANOLEPTIC			
Aroma	Good, typical of fresh grapefruit.		
Color	Good. Clear to slightly hazy liquid.		
Defects	Practically Free		
Flavor	Good. Typical of sound, mature grapefruit		
PHYSICAL			
	Target	Min	Max
Refractive Index (20°C)	1.473	1.471	1.478
Specific Gravity (20°C)	0.843	0.840	0.855
Optical Rotation (25°C)		87.5 °	95 °
Total Aldehydes	1.60	0.05	2.20
% Nootkatone (may vary from season to season)		0.01%	1.30%
GC Analysis	Conforms to an approved standard		

- FDA Compliance
- HACCP System
- GFSI accredited
- Kosher Certified
- Fully Traceable Product
- 100 % Natural
- Gluten Free
- Allergen Free

HEAVY METALS & PESTICIDES

Pesticides comply with USA, Canada and EU regulations, ensuring they meet safety limits set by both jurisdictions. Analysis Available upon request.

Packaging and Storage

Drums

Packaging: 55 gallon, 48 gallon net fill, epoxy phenolic lined 1A1 steel drums. Approximate net weight of 390 lbs. (177 kgs)

Storage/Shelf Life:

- When unrefrigerated, >55°F (13°C) and <80°F (26°C), in the original unopened container, shelf-life is 24 months.
- When chilled, 33-55°F (0.5-13°C), in the original unopened container, shelf-life is 36 months.
- When frozen, <32°F (0°C), in the original unopened container, shelf-life is 60 months.

Labeling: Label is placed on top of the drum using an adhesive label to stick to the drum. Labels comply with international labeling regulations. Label sample is on the right which indicates what the drum tag includes.

 702 E. Interstate Hwy 2 Mission, Texas 78572	Grapefruit Essence Oil RGJC Product Code: BP4100-D Recommended Storage: Store at < 40°F in original container Product Shelf Life: 60 Months																
Customer Information: ①	<table><tr><td>Lot Number:</td><td>A25106-02</td></tr><tr><td>Production Date:</td><td>4/16/2025</td></tr><tr><td>Refractive Index:</td><td>1.4727</td></tr><tr><td>% D-Limonene:</td><td>95.55</td></tr><tr><td>Drum Number:</td><td>ESOR2404</td></tr><tr><td>Tare Weight (LBS):</td><td>34</td></tr><tr><td>Net Weight (LBS):</td><td>180</td></tr><tr><td>Gross Weight (LBS):</td><td>214</td></tr></table>	Lot Number:	A25106-02	Production Date:	4/16/2025	Refractive Index:	1.4727	% D-Limonene:	95.55	Drum Number:	ESOR2404	Tare Weight (LBS):	34	Net Weight (LBS):	180	Gross Weight (LBS):	214
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Product Numbers

This technical data sheet applies to the following Product Numbers:

BP4100-D – W1041994

Lot Code Explanation

Our bulk products are assigned a unique code at the time of manufacturing. Each batch will be identified by a code that looks like "A23310-01 or P23319-01 or S22333-09".

These codes are assigned by the quality assurance lab. The letters designate the origin of the batch:

- P- Production
- T- Tanker
- S- Sales Blend
- A- By Product

The numeric portion is composed of the last two numbers of the year (23), the Julian day (310), and after the hyphen the batch number for the day (-01).

The format follows: PYYDDD-BB where P represents the origin, YY the year, DDD the Julian day, and BB the batch number.

COA Example



Quality Assurance Department Certificate of Analysis

Product Identification
Lot Number
Production Date:
Expiration Date

W1041994-BP4100-D Red Grapefruit Essence Oil Drum
A25106-01
04/16/2025
04/16/2030

Analysis	RGJC Laboratory Analysis	UOM	Specifications	
			Min	Max
Country of Origin	United States of America			
Refractive Index (AOAC 921.141)	1.4732	EA	1.4710	1.4780
Specific Gravity (AOAC 920.140)	0.848	EA	0.8400	0.8500
Optical Rotation (AOAC 921.142)	96	EA	87.5	95.0
% d-Limonene	94.14	PCT	90.00	100.00
% Noolkaton	0.0197	PCT	0.0100	1.3000
Total Aldehydes as Decanal	0.78	PCT	0.05	2.20

Customer Remarks:

A handwritten signature in blue ink, appearing to read "J. H." or "John H.".

Designated Supplier Signature:
Title: FSQA Supervisor
Issue Date: 09-16-2025 10:18:00
Rio Grande Juice Company - 702 E. Interstate Hwy 2, Mission, TX 78572 - (956) 598-6800

Customer Acceptance of Specifications

Rio Grande Juice Company has presented the customer with specifications for GRAPEFRUIT ESSENCE OIL, and this Agreement formalizes the acceptance of these specifications. Both parties acknowledge that they have reviewed and approved the specifications.

RIO GRANDE JUICE COMPANY

Approver Signature:



Approver Printed Name: LUIS HERNANDEZ

Approver Position: FSQA SUPERVISOR

Date: 9/16/2025

Customer

Customer Name: _____

Approver Signature: _____

Approver Printed Name: _____

Approver Position: _____

Date: _____

Any modifications or amendments to the approved specifications must be agreed upon in writing by both parties

This document contains confidential proprietary information and is not to be shared with others without explicit authorization from Rio Grande Juice Company.