

VITA PAKT[®]

TECHNICAL BULLETIN

PRODUCT NO. 212
VITA-PAKT FROZEN LEMON JUICE REGULAR PULP
NOT FROM CONCENTRATE

Description

Vita-Pakt Product No. 212, Lemon Juice - Not from Concentrate, is the juice of fresh lemons, *Citrus limon*, grown in the heart of the lemon citrus belt. California lemons are known as the finest grown anywhere in the world. It has been fine screened after extraction to reduce the pulp level to industry standards. Product No. 212 is then pasteurized and quickly frozen to retain its quality and freshness. It does not contain any additives.

Ingredients

Lemon Juice

Specifications

Product	Microbiological Specifications cfu/g		
Brix (corrected)*	6.2 Minimum	TPC	≤1000
pH	2.00 – 3.50	Yeast	≤100
Acid (as citric)*	43 – 75 gpl	Mold	≤100
Pulp (fine)	4 – 12 %v/v	Total Coliform	<100
Weight	8.6 lbs/gal (avg)	E. coli	<10

*Because this is juice expressed from the fresh lemons and is not standardized the Brix and acid will vary due to seasonal conditions.

Shipping and Storage

0° F (-17.8° C) or below. Product should be used as soon as possible after thawing.

Shelf Life

For best quality, use within two years.

Packaging

4.5 gallon (17 liters) fill in an HDPE pail

Weight: 38.7 pounds (17.5 Kg) net
41.7 pounds (18.9 Kg) gross

48 U.S. gallons (182 liters) in open-head steel drum with polyethylene liners.

Weight: 408 pounds (185 Kg) net average
448 pounds (203 Kg) gross average

Bulk – Approx 5,500 Gallon Tankers

CORPORATE

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Bakersfield, CA 93390
Issued: 01/08/2024 EM
Supersedes: 12/18/2023

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NUTRITION FACTS

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Average Values per 100 grams

Calories	30
Calories from Fat	1
Moisture	92.22 g
Ash	0.39 g
Total Fat	0.15 g
Saturated Fat	0.04 g
Trans Fatty Acids	0 g
Cholesterol	0 mg
Sodium	6.73 mg
Potassium	102 mg
Total Carbohydrate	6.78 g
Dietary Fiber	0.34 g
Sugars	2.02 g
Added Sugars	0 g
Protein	0.46 g
Vitamin A	15 I.U.
Vitamin C	30 mg
Vitamin D	0 mcg
Calcium	12 mg
Iron	0.17 mg

These are calculated values based on published data and actual analysis. As these values are subject to geographic and environmental factors affecting the fruit being harvested, they can vary over a rather broad spectrum.

ALLERGEN AND SENSITIVITY AGENTS INFORMATION

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Allergen	Present in Product	Present in Products Manufactured on Same Line	Present in Same Manufacturing Plant
Egg/Egg Products <ul style="list-style-type: none"> • Egg whites, albumen, lysozyme etc. 	No	No	No
Fish <ul style="list-style-type: none"> • All species 	No	No	No
Milk/Milk Products <ul style="list-style-type: none"> • Caseinates, NFD, cheese, whey, lactose, butter, etc. 	No	No	No
Peanut Products <ul style="list-style-type: none"> • All types (e. g. butter, oil, arachis, etc.) 	No	No	No
Shellfish Crustaceans <ul style="list-style-type: none"> • Shrimp, crab, lobster, prawns, crayfish, etc. 	No	No	No
Soybean/Soy Products <ul style="list-style-type: none"> • Tofu, miso, soy lecithin, soy flour, soy grits, soy isolate, hydrolyzed soy protein, etc. 	No	No	No
Tree Nuts <ul style="list-style-type: none"> • All types (e.g., walnuts, almonds, cashews, pecans, hazelnuts, Brazil nuts, pistachios, pine nuts, macadamia, ginkgo nut, coconut, etc.) 	No	No	No
Wheat/Related Grains <ul style="list-style-type: none"> • Wheat gluten, wheat flour, germ, farina, malt, etc. 	No	No	No

International Allergens & Sensitizing Agents	Present in Product	Present in Products Manufactured on Same Line	Present in Same Manufacturing Plant
Added Diacetyl	No	No	No
Alternative Sweeteners <ul style="list-style-type: none"> • Aspartame, fructose, Sorbitol, Stevia, Sucralose, etc. 	No	No	No

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International Allergens & Sensitizing Agents	Present in Product	Present in Products Manufactured on Same Line	Present in Same Manufacturing Plant
Anti-Oxidants <ul style="list-style-type: none"> • BHA, BHT, TBHQ, etc. 	No	No	No
Celery	No	No	No
Chocolate/Chocolate Derivatives	No	No	No
Colors <ul style="list-style-type: none"> • Annatto, apo-carotenal, beet powder, caramel, carmine, cochineal, FD&C, paprika, tartrazine, turmeric, etc. 	No	No	No
Gluten <ul style="list-style-type: none"> • Barley, malt, oats, rye, etc. 	No	No	No
Grains <ul style="list-style-type: none"> • Barley, corn, oats, rice, etc. 	No	No	No
Hydrolyzed Vegetable Protein	No	No	No
Lupin/Lupine	No	No	No
Monosodium Glutamate (MSG) <ul style="list-style-type: none"> • Autolyzed yeast/yeast extracts, Glutamic acid 	No	No	No
Mustard	No	No	No
Seeds/Seed Derivatives <ul style="list-style-type: none"> • All types (e.g., caraway, celery seed, cottonseed, mustard, poppy, safflower, sesame, sunflower, etc.) 	No	No	No
Sesame	No	No	No
Shellfish Molluscan <ul style="list-style-type: none"> • Clams, mussels, oyster, scallops, etc. 	No	No	No
Sulfites/Sulfur Dioxide <ul style="list-style-type: none"> • Sodium bisulfite, sodium metabisulfite, sodium sulfite, potassium bisulfite, potassium metabisulfite, potassium sulfite, etc. 	No	No	No

VITA-PAKT®

TECHNICAL BULLETIN

LABEL - Pail



LABEL – Drum





PERCENT RANGE OF INGREDIENTS

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<u>Ingredient</u>	<u>%wt/wt</u>
Lemon Juice	100

GENERAL RECOMMENDATION TABLE FOR PRODUCT THAWING AND HANDLING

Thaw Procedure Table

Thawing Temperature	Thaw Time	Packaging	Residence Time (after thaw)	Total Time
≤ 41 °F	5 – 7 Days	Pails	3 – 5 Days	8 – 12 Days
≤ 41 °F	7 – 10 Days	Drums	3 – 5 Days	10 – 15 Days
Circulating Bath < 70 °F	< 4 hours	Pails	Use Immediately	-
Microwave	-	Small Packages	Use Immediately	-

Temperature Effect Table on Finished Products Shelf Stability Once Thawed

Storage Temperature	Shelf Stability	Thaw Time (pails)	Total Time Stable	Recommended Handling*
45 °F	4.0 Days	5.0 Days	9.0 Days	Not Recommended
41 °F	7.0 Days	7.0 Days	14.0 Days	
40 °F	8.0 Days	8.0 Days	16.0 Days	
35 °F	19.0 Days	20.0 Days	39.0 Days	
30 °F	124.0 Days	N/A	124.0 Days	
25 °F	6 months	N/A	6 months	
14 °F	1 Year	N/A	1 Year	
0 °F	2 Years	N/A	2 Years	

Additional Comments: Typical thaw for products is generally 1 day for every 5 lbs. of product by weight. For peel products, the time to thaw decreases if the product is packed in syrup or juice.

- Recommended refreezing after thaw within 3 – 5 days to preserve stability. Refreeze in airtight containers, allowing expansion for single strength products. Food must be kept out Danger Zone of 40 °F – 140 °F whenever possible. Food takes longer to thaw at lower temperatures. Some areas of cold storage may be warmer or cooler depending on location from heat exchanger and doors.

Shelf stability is generally reduced to 50% of remaining shelf when product is refrozen.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name:	Lemon Juice
Formula:	N/A
Chemical and Common Name:	Lemon Juice
CAS Number:	N/A

II. TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance and Odor:	Yellow liquid with odor characteristic of lemon.
Boiling Point (@ 760 mm Hg):	N/A
Vapor Pressure (Torr @ 25° C):	N/A
Vapor Density (Air = 1):	N/A
Specific Gravity (@ 25/25° C, H ₂ O = 1):	N/A
Solubility in Water:	Complete

III. FIRE, EXPLOSION AND REACTIVITY HAZARD DATA

Flash Point (Tag Closed Cup):	N/A
Ignition Temperature:	N/A
Flammable Limits (Percent by Volume)	Lower: N/A Upper: N/A
Fire Extinguishing Media:	N/A
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None
Hazardous Products of Combustion:	None
Stability Considerations:	Stable
Incompatibility With:	N/A
Hazardous Polymerization:	None
Hazardous Decomposition Products:	None
Conditions to Avoid:	None

IV. HEALTH HAZARD DATA

OSHA Permissible Exposure Limit:	Not Listed
ACGIH Threshold Limit Value:	Not Listed
Carcinogenicity:	N/A
Effects of Overexposure:	Acute: May cause skin irritation in sensitive individuals.
	Chronic: May cause skin irritation in sensitive individuals.

MATERIAL SAFETY DATA SHEET

IV. HEALTH HAZARD DATA (cont'd.....)

Emergency First Aid Procedures:	Wash thoroughly with soap and water thoroughly flush eyes.
Medial Conditions General Recognized As Being Aggravated By Exposure:	None

V. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: rinse	Contain with absorbent material or into drain.
Waste Disposal Method:	If local ordinances permit, flush into sewer system.

VI. PERSONAL PROTECTION, HANDLING AND STORAGE INFORMATION

Personal Protective Equipment:	Adequate work clothes. For sensitive individuals, gloves may be required.
Appropriate Hygienic Practice:	Wash with soap and water after handling.
Ventilation:	N/A
Restrictions:	N/A
Handling and Storage Precautions:	Proper lifting techniques are Recommended. Store at 0° F. or below for best quality.

For further questions, contact Vita-Pakt at (559) 562-6008.

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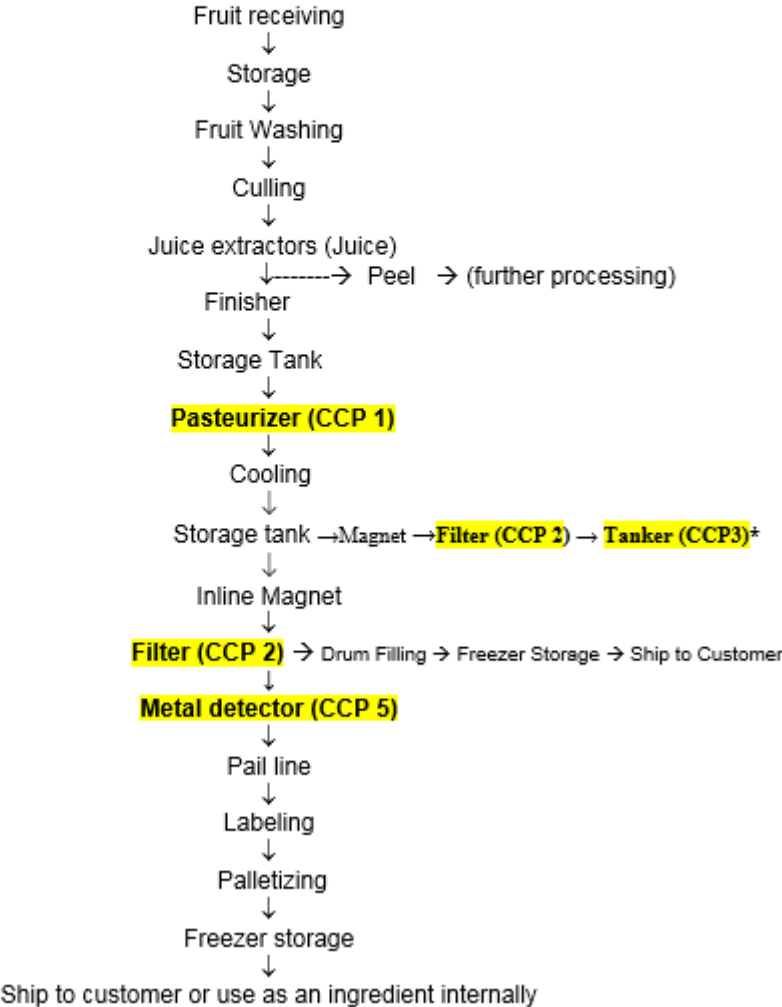
VITA-PAKT®

TECHNICAL BULLETIN

VITA-PAKT
LINDSAY, CA

HACCP FLOW CHART FOR

NFC JUICE
(SINGLE STRENGTH FROM FRUIT)



PALLET REQUIREMENTS AND CONFIGURATIONS

PALLET REQUIREMENTS:

GMA #1 required for all shipments

Most 48" x 40" pallets are manufactured as "Grocery Manufacturer's Association" or GMA pallets.

- Stringers are 1 3/8" x 3 1/2" x 48".
- Stringers have two notches in the side to allow for forklift entry. This makes it a 4way pallet.
- Pallet boards are 5/8" thick.
- Top of pallet has a 5/8" x 5 1/2" x 40" board on each end, and five 5/8" x 3 1/2" x 40" boards in the center.
- Bottom of pallet has a 5/8" x 5 1/2" x 40" board on each end, and three 5/8" x 3 1/2" x 40" boards positioned between the notches.
- Alternate acceptable construction for GMA pallet is six 5/8" x 5 1/2" x 40" board on top, and four 5/8" x 5 1/2" x 40" boards on the bottom.

ISPM Requirement:

All pallets shall be - **Heat Treated (HT)**: Wood packaging material should be heated in a schedule that achieves a minimum core temperature of 56°C for a minimum of 30 minutes. The American Lumber Standards Committee administers the U.S. certification program for heat treatment. Each pallet must be marked (branded) with certificate on file.

PALLET CONFIGURATIONS:

