



PRODUCT SPECIFICATION					
Apple Juice Concentrate					
Code: ETAJCO1	Version: 08	Last 01/2019	Revision:	Written Certifications responsible.	by: Approved by: Quality Manager

### Product Description

100% Apple juice concentrate, made of sound and mature apples (*Malus sp.*), which have been pressed, depectinized, filtered, concentrated and packed.

The product development process is carried out under strict hygiene standards, complying with Good Manufacturing Practices, HACCP and BRC systems.

### Raw Material Varieties

Granny Smith, Fuji, Royal gala, Pink lady, Braeburn, Red Spur, Red King Oregon and other varieties.

### Physical and Chemical Parameters

Brix	:	70 ± 1.0	°Brix
Acidity	:	1.10 - 1.59 (Low)	% w/w Malic Acid
	:	1.05 - 1.51 (Low)	% w/w Citric acid
	:	1.60 - 1.89 (Medium)	% w/w Malic Acid
	:	1.52 - 1.80 (Medium)	% w/w Citric Acid
	:	≥ 1.90 (High)	% w/w Malic Acid
	:	> 1.81 (High)	% w/w Citric Acid
pH	:	3.0 - 3.9	AD
Color	:	> 35	%T @ 430 nm at 11.5 °Brix
Transparence	:	90.0 - 99.9	%T @ 625 nm at 11.5 °Brix
Turbidity	:	< 5.0	N.T.U. at 11.5 °Brix
Specific Gravity	:	1.35	at 20°C
Pectin	:	Negative	% (Acidified Alcohol Test)
Starch	:	Negative	Qualitative (Iodine Test)
Insoluble Solids	:	Negative	% (Centrifugation)
Patulin	:	< 50	ppb at 12 °Brix (HPLC)
Density	:	1,3495	at 70° Brix @ 20°C



### Microbiological Parameters

Total Plate Count	:	< 100	cfu /gr (TPC Agar)
Yeasts and Molds	:	< 10	cfu /gr (PDA Agar)
A.C.B	:	Negative	cfu /10 gr (BAT Agar)
Coliforms	:	< 1	cfu /10 gr (VRB Agar)

### Sensory Properties

Color (visually)	:	Golden yellow to amber.
Taste	:	Sweet, eventually slightly acid. No cooked or caramelized.

### Packing

Open head steel drums	:	60	US gal
	:	306.7	Kg
Wood tote bins	:	300	US gal
	:	1.533	Kg



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**Shelf life**

Retest after : 24 months  
If stored at : 32 - 39 / 0 - 4 °F / °C

**Lettering:**

Each unit is labeled with the following information: Name of manufacturer, product name, batch number, production date, product code, net weight, gross weight.

**GMO:**

This product contains no material derived from genetically modified organisms.

**Allergens:**

100% natural contains no allergens ingredients.

**Heavy metals and Pesticides:**

This product fulfills the Mrl and tolerances according to regulation of destination markets.

**Health Benefits**

Apples are a highly nutritive food, contains minerals and vitamins in abundance. It has been found that apples improve bowel function, and reduce blood cholesterol, risk of stroke, prostate cancer, Type II diabetes and asthma. This is due to the fiber and phytonutrients present in apples. Dietary phenolics such as flavonoids have inhibitory effects on developments of carcinogenic substances in the bladder. Apples are rich in potassium and phosphorus but low in sodium. It is also useful for patients of high blood pressure.

**Revision History:**

- 05/2015: Format change, version and responsables.
- 02/2016: Adding of acidity as Citric
- 12/2018: Acid range correction.
- 01/2019: Adding of Density value