

## PT 27: Fruits juices and other beverages without alcohol

### Details of the program:

- Proficiency testing scheme created in 1994
- **50 registered laboratories from 19 countries**
- **PTS accredited by COFRAC**
- 10 rounds per annual series
- The time for analysis is 4 weeks (*with the exception of the smoothie, which is 3 weeks*).
- Samples are shipped via express carrier around the 15<sup>th</sup> of the month.



### Schedule:

DATE	CODE	MATRIX	VOLUME
September	0127	Pineapple juice	Between 750 ml and 1000 ml depending on the matrix
October	0727	Apple juice	
	2627	Peach puree	
November	1127	Tomato juice	
	1827	Cola	
December	1227	Lemon concentrate	
	2827	Lemon juice	
	2427	Spiked orange juice	
January	2727	Spiked apple juice	
	1427	Apple Blackcurrant beverage	
February	1327	Orange concentrate	
	0227	Orange juice	
	1927	Light soda	
March	0927	Apricot nectar	
	2027	Tonic	
April	0427	Grape juice	
	0527	Grapefruit juice	
May	3127	Multi-fruits juice with Stevia	
	1527	Grenadine syrup	
June	3227	Spiked grape juice	
	2327	Prune juice	

### ANALYTES

Physical analysis: absolute and relative density, refractometric dry extract, Haze, Cielab color characteristics (L\*, a\*, b\*), optical density (420, 520 nm), turbidity, soluble solids, total dry residue

Sugars: Sugar free dry extract, Glucose, Fructose, Sucrose, Maltose, Sorbitol, total sugars, glucose-fructose ratio, percentage of sucrose of the sugar

Organic acids: pH, Titrable acidity, citric acid, fumaric acid, lactic acid, d-malic acid<sup>NA</sup>, l-malic acid, d-isocitric acid, tartaric acid, sorbic acid, benzoic acid, ascorbic acid, parahydroxybenzoic acid<sup>NA</sup>, citric acid / total d-isocitric acid<sup>NA</sup>, Formol index

Vitamin C

Parameters for the energy value determination <sup>NA</sup>:

Total proteins, total fat content, total glucids, dry matter, ashes, sodium, total sugars (expressed as kj / 100 ml or as kcal / 100 ml)

NA \*: Not accredited

Note: Matrices and analytes may be changed or removed for technical or scientific reasons.

Please refer to current application form available in your member area ([www.bipea.org](http://www.bipea.org)).

Other organic compounds: HMF, Ethanol, Pectins (total<sup>NA</sup>, hydrosolubles), total cartenoides, Cryptoxanthin ester<sup>NA</sup>, Caffein, Taurine, glucoronolactone<sup>NA</sup>, Quinine<sup>NA</sup>, Limonine<sup>NA</sup>

Essential oils

Sugar substitutes: aspartame<sup>NA</sup>, acesulfame K, saccharinate<sup>NA</sup>, acesulfame<sup>NA</sup>, sucralose<sup>NA</sup>, cyclamate<sup>NA</sup>, stevia<sup>NA</sup>

Non-organic compounds – cations: Na, K, Ca, Cu, Mg, Fe, P

Non-organic compounds – anions: Nitrates, Chlorides, Phosphates, Sulfates<sup>NA</sup>

Other non-organic compounds: Phosphoric acid<sup>NA</sup>, Carbone dioxide, total sulfur dioxide<sup>NA</sup>