



Coconut Water Fruit Drink Fortified with AQUAMIN

Soluble

Summary

- Aquamin Soluble was chosen for this drink as the pH of coconut water was between 2.8-6. Coconut water was made up of Pasteurized Coconut water (Solevita Range)
- I choose to use 18.7% RDI as this can be claimed on the label as high source of calcium per 250ml.
- The Fruit Concentrate is the Mi-Wadi brand from Ireland. This has very low amounts of additives but should be noted that there is added Citric Acid in here also (See breakdown Below)
- On addition, the AQ Soluble worked with the coconut water and mixed well. This was added with the concentrate as the water was mixing. This was stirred for 5 minutes
- There was a consistent pH throughout. After HPP trials the pH stayed in the acidic zone (4.16)
- The HPP trials were carried out to assess how the product would react in the High-Pressure Processing as this is a new area that is being used by manufacturers to prolong shelf life without changing the flavour and colours of product. This is also used for Clean labelling. The analysis after HPP showed that the drink had a better flavor profile compared to the non HPP/AQ sol drink
- Sensory-pink and clearer beverage compared to the Control

ADVANTAGES

Plant Calcium Enriched Drink
 Improved mouthfeel compared to control
 Brighter Colour compared to the control
 Delivers 18.75% of Ca RDI per serving (250ml)

RECIPE

U.S (D.V's) Label per 250ml Portion

Nutrition Facts	
Serving Size (250g) 0 servings per pack	
Amount Per Serving	
Calories	50
% Daily Value *	
Total Fat 0.25g	
Saturated Fat 0.25g	1%
Trans Fat 0g	
Cholesterol 0mg	
Sodium 240mg	10%
Total Carbohydrate 12g	4%
Dietary Fibre 3g	11%
Total Sugars 6g	
Includes 0.04g Added Sugars	
Protein 2g	3%
Vitamin D 0mcg	Calcium
	160mg 15%
Iron 0mg	Potas. 1.2mg
* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.	

Ingredients	Percent (%Content)
Pasteurized Coconut water	98.5

Fruit Concentrate-(Fruit Juices from concentrate 50%(Apple 43%, Strawberry 5%, Raspberry 1%, Cherry) (1%)Water, Acid(Citric Acid), Natural Colour (Anthocyanins),Acidity Regulator (Sodium Citrate), Natural Flavouring, Sweetener (Sucralose), Preservatives (Pot sorbate, Sodium Metabisulphite)	1
Aquamin Soluble	0.5
Total	100

PROCEDURE

1. Weigh out 1.3g of AQ S for a 250ml dilution
2. AQ Soluble is added to the coconut water phase with the Fruit Concentrate
3. This is mixed in the Silverson for 5 minutes at a low speed

PRODUCT CHARACTERISTICS

- With Added Plant Sourced Calcium
- Allergen Free
- Low G.I
- On trend drink with coconut water
- Labelling: Calcium Citrate Malate & Magnesium Citrate Malate