PRODUCT FORMULATION

NutraSweet® in Still/RTD Beverages

ADVANTAGES OF NUTRASWEET® IN STILL/RTD BEVERAGES

- Adds clean, sweet taste
- Provides sweetness at low concentrations
- Delivers sweetness equivalency at a cost that is competitive with sucrose and corn syrup
- May enhance and extend certain flavors, especially citrus
- Calorie reduction possible in most beverages§
- Possible nutrient content claims§ include no sugar added and light
- Easy to use in tunnel, UHT, HTST, batch, or aseptic manufacturing processes with good process stability (92 - 100% retention)

WORKING WITH NUTRASWEET® IN STILL/RTD BEVERAGES

- Use levels: 0.01 - 0.06% (100 - 600 ppm)
- NutraSweet® Granular™ is readily dispersible with less dusting in liquid systems
- Custom Liquid 50™ can be used in:
  - continuous product systems
  - batch systems requiring liquid feed
  - viscous products
- Dissolves most readily in slightly acidified solutions
- Dissolves best at temperatures approaching 70°F (21°C). Sweetness loss is increased as temperature increases, so care should be taken when holding syrups with NutraSweet.
- In order to maintain maximum sweetness, syrup solutions containing NutraSweet should not be held for more than 8 hours
- In finished beverages, stability of NutraSweet is suitable for normal distribution and turnover

LIGHT/NO SUGAR ADDED§ 30% ORANGE JUICE BEVERAGE MADE WITH NUTRASWEET®

Ingredient	%
Treated water	93.37
Citric acid	0.17
NutraSweet® brand sweetener	**0.04**
Potassium citrate	0.02
Orange juice concentrate, 65 Brix	5.62
Orange flavor	0.09
Peach flavor	0.49
Color (1% solution)	0.20
	100.00%

pH	3.77 ± 0.05
Brix	4.40 ± 0.01

Nutrition Information per 8 fl.oz. serving

Calories	35
Carbohydrates (g)	8.2
Sugar (g)	8.0
Sugar Alcohols (g)	0.0

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PROCESS DESCRIPTION FOR FINISHED BEVERAGES WITH NUTRASWEET®

1. Blend water with acid under agitation.
2. Add NutraSweet and mix well.
3. After NutraSweet dissolves, add other ingredients and blend thoroughly.
4. Pasteurize as normal plant practice.
5. Cool and pack.

§ It is best to consult with a regulatory or legal consultant to determine the appropriate claims and final labeling requirements for your product.

LIGHT§ LEMON-LIME SPORTS DRINK SYRUP MADE WITH NUTRASWEET®

Ingredient	%
Deionized water	76.38
Sodium benzoate	0.22
Citric acid	1.10
HFCS 55	7.12
NutraSweet® brand sweetener	**0.09**
Potassium phosphate monobasic, crystal	0.10
Potassium citrate	0.11
Sodium citrate	0.11
Sodium chloride	0.23
Dextrose	13.70
Lemon extract	0.31
Lime extract	0.16
Lime emulsion	0.19
Yellow #5 (1% solution)	0.18
	100.00%

pH	3.13 ± 0.05
Brix	4.30 ± 0.1

Nutrition Information per 8 fl.oz. serving (when prepared 5:1)

Calories	30
Carbohydrates (g)	7.4
Sugar (g)	7.3
Sugar Alcohols (g)	0

BV07

PROCESS DESCRIPTION FOR SYRUP WITH NUTRASWEET®

1. Place enough water to dissolve acid and other powder ingredients in vessel.
2. Add the acid under agitation.
3. Add NutraSweet.
4. Mix in other powder and liquid ingredients.
5. Mix until dissolved – approx. 10-30 minutes. (Mixing time will depend upon the vessel size and the mixing equipment.)
6. Dilute syrup to proper ratio with water.
7. Pasteurize as normal plant procedure.
8. Cool and pack.

SUGAR-FREE§ LEMON ICED TEA MADE WITH NUTRASWEET®

Ingredient	%
Treated water	99.42
Potassium citrate	0.01
NutraSweet® brand sweetener	**0.05**
Lemon flavor	0.12
Tea base	0.23
Caramel color	0.17
	100.00%

pH	3.25 ± 0.050.01
Brix	<1

Nutrition Information per 8 fl.oz. serving

Calories	3
Carbohydrates (g)	0.7
Sugar (g)	0.1
Sugar Alcohols (g)	0

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MORE INFORMATION IS AVAILABLE TO YOU

This bulletin is intended to be general in nature. We are eager to work with you in the development of new products and processes. For additional information about our products, please call **1-800-323-5321 (USA/Canada)**

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Visit our website at www.nutrasweet.com

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