

# Mango-Flavored Green Tea with Whey Protein



This clear and refreshing mango-flavored green tea beverage takes tea to a new level with 5 grams of whey protein.

## Market Insights:

- Green tea is known to contain high levels of antioxidants and has driven significant growth in the tea category.
- A favorite of trend-conscious, younger consumers, green tea also appeals to older consumers who are interested in its health benefits.

## Benefits of Using Dairy Ingredients:

### Whey Protein Isolate:

- Boosts protein content and offers excellent digestibility.
- Contains amino acids in the proportions that the body requires for good health.
- Has been shown in preliminary research to support satiety.
- Offers good solubility and heat stability at acid pH.
- Has high clarity at acid pH.
- Provides a clean flavor that works well in beverages.

Ingredient	Usage Level (%)
Water	89.20
Sucrose	8.08
<b>Whey Protein Isolate (WPI)</b>	<b>2.24</b>
Phosphoric Acid	0.18
Natural Green Tea Flavor WONF	0.16
Mango Flavor WONF	0.07
Potassium Sorbate	0.04
Natural Green Tea Powder	0.03
<b>TOTAL</b>	<b>100.00 %</b>

## Preparation:

1. Mix WPI and water (at ambient temperature) using a high-speed mixer. Allow to hydrate for 20 minutes with slow agitation.
2. Mix in tea powder, sucrose, potassium sorbate and flavors.
3. Use 85% phosphoric acid solution to adjust pH to 3.2.
4. Heat mixture to 175°F for 45 seconds.
5. Fill containers and cool to 40°F.

Developed at the Wisconsin Center for Dairy Research, University of Wisconsin-Madison.  
 © 2007 Dairy Management Inc.™ Note: This formula serves as a reference. Product developers are encouraged to modify the formula to meet manufacturing and finished product specification needs.

Nutrition Facts			
Serving Size 8 fl oz (240 ml)			
Servings Per Container 1			
Amount Per Serving			
<b>Calories</b> 100	<b>Calories from Fat</b> 0		
% Daily Value*			
<b>Total Fat</b> 0g			<b>0%</b>
Saturated Fat 0g			<b>0%</b>
Trans Fat 0g			
<b>Cholesterol</b> 0mg			<b>0%</b>
<b>Sodium</b> 0mg			<b>0%</b>
<b>Total Carbohydrate</b> 20g			<b>7%</b>
Dietary Fiber 0g			<b>0%</b>
Sugars 19g			
<b>Protein</b> 5g			
Vitamin A 0%		Vitamin C 0%	
Calcium 0%		Iron 0%	
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs:			
		Calories	2,000 2,500
Total Fat	Less Than	65g	80g
Saturated Fat	Less Than	20g	25g
Cholesterol	Less Than	300mg	300 mg
Sodium	Less Than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Dietary Fiber		25g	30g
Calories per gram:			
	Fat	9	• Carbohydrate 4 • Protein 4

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