

INGREDIENTS

	Usage Levels (%)
Milk, whole	37.08
Sucrose	26.68
Corn syrup, 42 DE	19.27
Whey protein concentrate, 34% protein (W 34)	PC 11.12
Cream, heavy	5.56
Sodium bicarbonate*	0.22
Vanilla extract	0.07
Total	100.00

*Increasing or decreasing sodium bicarbonate controls the color of the final product.

BENEFITS OF USING U.S. DAIRY

Whey Protein Concentrate 34 (WPC 34)

- Contributes to viscosity and opacity
- Imparts viscosity
- Unfolds to stabilize the globules after adsorption at the oil/water interface
- Provides emulsion stability by reducing fat globule mobility and minimizing coalescence
- Adds creamy mouthfeel

NUTRITIONAL CONTENT

U.S. Label

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Nutrition Facts

erving Size	
nount Per Se	ervina

Amount Pe	r Ser	ving		
Calories 1	10	C	alories fro	m Fat 15
			% Dail	y Value*
Total Fat 1	.5g			2%
Saturated Fat 1g				4%
Cholestero	1 5mg]		2%
Sodium 85mg				4%
Total Carb	ohydra	ate 20g		7%
Dietary Fiber Og				0%
Sugars 16	òg			
Protein 2g				
Vitamin A	2%	•	Vitamin	C 0%
Calcium	2%	•	Iron	0%
* Percent Da diet. Your d depending d	aily val	lues may b r calorie ne	e higher or	
Total Fat Saturated Cholesterol	Fat	Less than Less than Less than	20g	80g 25g 300mg
Sodium		Lace than	2.400mg	2 400m

Calories per gram: Fat 9 • Carl	Irate 4	4 • Proj	tein 4
Dietary Fiber		25g	30g
Total Carbohydrate		300g	375g
Sodium	than	2,400mg	2,400mg
Cholesterol		300mg	300mg
Saturated Fat	than		25g
Total Pat	tnan		aug

PREPARATION

- 1. Prehydrate WPC 34 in water to make a 30% solution and let sit overnight at 5°C (41°F).*
- 2. Place milk and cream in a steam-jacketed kettle. Add sodium bicarbonate to this mixture. The pH of this mixture should be 6.2 to 6.4 to avoid precipitation of the proteins. Heat mixture to 60°C (140°F).
- 3. Add hydrated WPC 34, sugar and corn syrup to milk mixture.
- 4. Cook to 70 to 71% solids (approximately 108°C or 226°F) with constant stirring.
- 5. Stir in vanilla.
- 6. Fill containers with hot mixture, cover and cool.

*Note: Excess water will be boiled away during the cooking process

Rely on the dynamic lineup of U.S. dairy to meet consumer demands in global product development. The U.S. Dairy Export Council® (USDEC) offers resources on **ThinkUSAdairy.org** including a dairy ingredient supplier search, consumer, nutrition and product research, technical insights and prototype assistance to help develop and launch your next successful product. (Carter Science) (Carter Science

This formula serves as a reference. Product developers are encouraged to modify the formula to meet manufacturing and finished product specifications needs. Developed at the Wisconsin Center for Dairy Research, University of Wisconsin-Madison. ©2015 U.S. Dairy Export Council.

