

INGREDIENTS

	Usage Levels (%)	
	Grams	% Weight
Lactose	185.0	37.0
Fat blend	135.0	27.0
Whey protein concentrate, 34% protein (WPC 34)	92.5	18.5
Skimmed milk powder	80.0	16.0
Vitamin/mineral premix*	5.0	1.0
Lecithin	2.5	0.5
Water	as needed	as needed
Total		100%

*As per manufacturer's usage levels/NLEA requirements.

NUTRITIONAL CONTENT

Calories	500kcal
Total Fat	27g
Saturated Fat	4g
Trans Fat	Og
Cholesterol	5mg
Total Carbohydrates	54g
Dietary Fiber	Og
Sugars	52g
Protein	12g
Calcium	540mg
Magnesium	108mg
Phosphorus	309mg
Potassium	370mg
Sodium	230mg
Iron	6mg
Vitamin A	1127IU
Vitamin C	20mg

PREPARATION

- 1. Weigh out WPC 34, skimmed milk powder, and lactose. Add these dry components to a quantity of water that will produce a concentrated liquid that is flowable.
- 2. Heat the solution to approximately 140°C (284°F) and mix in the lecithin, fat blend and vitamin/mineral premix.
- 3. Continue heating to pasteurize. Homogenize using

a two-stage process with pressures of 141 kgf/cm² (2008 lb/inch²) in the first stage and 35 kgf/cm² (500 lb/inch²) in the second.

- 4. Spray-dry and agglomerate for easier reconstitution.
- 5. To re-hydrate, blend 10% dry formula and 90% potable water by weight. Heat to pasteurize and cool to feeding temperature.

Rely on the dynamic lineup of U.S. dairy to meet consumer demands for 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. () <u>@ThinkUSAdairy</u>

This formula serves as a reference. Product developers are encouraged to modify the formula to meet manufacturing and finished product specification needs. ©2014 U.S. Dairy Export Council.

