Fat-Free Sour Cream with WPI



Nutrition Content per 100 g

Calories	60 kcal
Total Fat	1g
Saturated Fat	0.5 g
Trans Fat	0 g
Cholesterol	5 mg
Total Carbohydrates	6 g
Dietary Fiber	0 g
Sugars	5 g
Protein	7 g
Calcium	96 mg
Magnesium	0 mg
Phosphorus	82 mg
Potassium	0 mg
Sodium	160 mg
Iron	0 mg
Vitamin A	166 IU
Vitamin C	0 mg

% Weight
64.25
30.00
3.44
0.76
0.75
0.27
0.27
0.20
0.06

Procedure

- 1. Mix all dry ingredients together in a bowl.
- 2. Place skimmed and whole milk together in a pan, and disperse dry ingredients in milk, using a mixer.
- 3. Heat to 85°C (185°F), and hold for 30 minutes to pasteurize.
- 4. Homogenize at 70°C (158°F), using two stages: 13.8 MPa (2000 psi) in the first stage and 3.5 MPa (508 psi) in the second stage.
- 5. Cool to 21°C (70°F) and inoculate with culture.
- 6. Incubate at 24°C (75°F) approximately 18 hours, or until pH of 4.5 to 4.6 is reached.
- 7. Cool to 4°C (40°F) and store for at least 48 hours to allow starch to set up and full viscosity to be developed.