A guide to protein powders



Thorne's line of high quality protein powders ensures you get the best fit for your dietary and lifestyle needs.

Protein: an introduction

The importance of protein

Protein is one of three key nutrients that your body needs daily. Protein is considered a macronutrient, along with carbohydrates and fats. It is found in both animal sources and plant sources. The quality of a protein is based on the amounts and types of amino acids it provides. Typically, animal proteins from meat, fish, poultry, dairy, and eggs have more of the amino acids the body needs than do proteins from plants, such as soybeans, peas, rice, and vegetables. Plant-based proteins are often missing one or more "essential amino acids" - making them incomplete proteins. What is an essential amino acid? It's an amino acid needed by the body but that cannot be made in the body.

Collagen makes up about 30 percent of the protein in the body. Collagen powders are usually made up of short chains of specific amino acids (proline, glycine, and hydroxyproline in particular) called peptides.

Who could benefit from a protein supplement?

It's important for everyone to get adequate protein as part of a healthy diet. Certain conditions or lifestyle choices may increase the body's need for protein.

Here are some groups of people who might benefit from protein supplementation:

- / Individuals who engage in strenuous exercise
- Vegans and vegetarians
- / Growing children and adolescents
- / Individuals recovering from surgery*
- / Individuals healing from an injury or burn*
- / People on a weight management program or a calorie-restricted diet*
- / Older adults, whose protein needs increase at the same time they might be eating less due to reduced appetite, difficulty chewing or swallowing, or poor digestion
- Anyone wanting support for healthy skin, hair, and nails.*



How can protein supplements affect my health?

Sufficient protein can help you in several ways:

- / Promotes overall nutritional health*
- / Helps maintain muscle mass*
- Supports healthy immune function*
- / Promotes muscle recovery after strenuous exercise*
- / Supports healthy skin, hair, and nails*

How do I take a protein supplement?

Most protein supplements are provided as a flavored or unflavored powder. You can add that powder to liquids or soft foods (such as oatmeal or applesauce), or blend it with ingredients such as ice and fresh fruit to make a shake. See the recipes on pages 8-15.







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Collagen Fit

- Unflavored / Unsweetened
- Nutrient support for joints, muscles, bones, and skin*
- / Improves activity-related or exerciseinduced joint pain*
- / Promotes the growth of lean muscle mass*

MediClear Plus®

- Unflavored / Unsweetened
- / Formulated to support liver and colon detoxification*
- ✓ Well-absorbed botanical phytosomes
- Maintains the body's normal inflammatory response to toxins*

RecoveryPro[®] Chocolate

- ✓ NSF Certified for Sport[®]
- / Supports restful sleep and enhances lean muscle mass*
- Optimizes nighttime muscle recovery*



Collagen Plus

Passion Berry

- / Enhances the health of skin, hair, and nails*
- / Promotes the hydration, elasticity, and strength of the skin*
- Reduces fine lines and wrinkles and lightens and brightens skin pigment*
- Supports skin hydration for dry, rough, scaly skin*



MediClear-SGS[™]

Chocolate / Vanilla

- Support for detox programs and elimination diets*
- / Enhanced liver support from sulforaphane glucosinolate (SGS)*
- / Provides long-lasting cell protection from free-radical damage*



Whey Protein Isolate

Chocolate / Vanilla

- / NSF Certified for Sport®
- / Ideal for people who need additional protein in their diets*
- Supports fitness training, weight management, and healthy lifestyle*

A side by side comparison

	MediClear Plus® Unflavored	MediClear-SGS™ Chocolate	MediClear-SGS™ Vanilla	RecoveryPro® Chocolate
Calories	100	170	190	140
Total fat	1.5 g	3.5 g	5 g	6 g
Protein	20 g	20 g	20 g	13 g
Fiber	1g	2 g	1g	4 g
Total carbs	2 g	9 g	10 g	9 g
Gluten-free	•	•	•	•
Vegetarian	•	•	•	
+ Vitamins & minerals	•	•	•	
Best for	Detox	Detox	Detox	Sports performance*
Add. benefits	GI & liver support*	GI & liver support*	GI & liver support*	Sleep & muscle support*
Spotlight	EXCLUSIVE	EXCLUSIVE	EXCLUSIVE	NSF



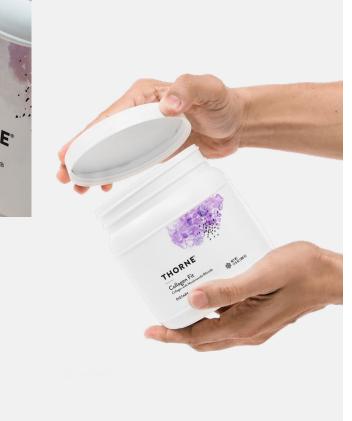
	Whey Protein Isolate Chocolate	Whey Protein Isolate Vanilla	Collagen Fit Unflavored	Collagen Plus Passion Berry
Calories	100	100	60	61
Total fat	1g	0.5 g		
Protein	21 g	21 g	14 g	12 g
Fiber	1g	1g		
Total carbs	4 g	3 g		2 g
Gluten-free	•	•	•	•
Vegetarian				
+ Vitamins & minerals				
Best for	Sports performance*	Sports performance*	Muscle & joint support*	Skin, hair & nail support*
Add. benefits	Immune support*	Immune support*	Healthy aging*	Healthy aging*
Spotlight	NSF	NSF	NSF	EXCLUSIVE



Thorne powders

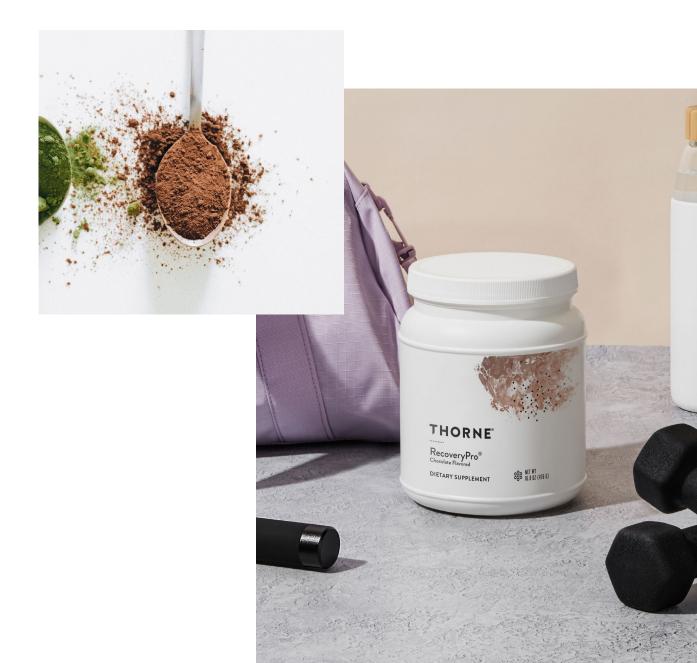
Recipe guide





Start your day with a Thorne protein shake or try one of our other unique ways to incorporate protein powder into your diet.

Collagen Fit	MediClear-SGS™C
Collagen Plus	MediClear-SGS™ V
MediClear Plus®	RecoveryPro ®



ChocolateWhey Protein Isolate ChocolateVanillaWhey Protein Isolate Vanilla

Smoothie recipes

Smoothie recipes

Note - You can substitute with your protein powder of choice. If you want to add Collagen Fit or Collagen Plus to any of these, cut the amount of each protein powder in half. You can also cut the recipes in half for a 2 per day experience.

Almond Cinnamon Roll

Ingredients

1 scoop Whey Protein vanilla or 2 scoops MediClear-SGS™ vanilla

14-16 oz Almond milk

⅓ tsp Almond extract

⅓ tsp Cinnamon

For extra richness, one tbsp of plain, honey, or vanilla yogurt, or one-half of a banana, or several almonds ground to a powder can be added.

Apple Lemon Double Ginger

Ingredients

2 scoops	MediClear Plus® or MediClear-SGS vanilla
6 oz	Apple juice
½ oz	Lemon juice (fresh squeezed)
1 tbsp	Ginger juice (optional)
2-4 oz	Cold water
For a thicker smoothie, add ice and eliminate water.	

Apple Pie

Ingredients

4 oz	Unsweetened organic applesauce
12-14 oz	Water or milk of choice
⅓ tsp	Cinnamon
For an extra cold shake, freeze single serving containers of applesauce.	

Banana Almond Shake

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
1	Banana (small)
1tbsp	Almond butter
10 oz	Water, unsweetened almond milk, or unsweetened coconut milk
4-6	Ice cubes

Banana Chocolate

Ingredients

1scoop Whey Protein chocolate or 2 scoops MediClear-SGS chocolate

- Coconut milk (plain), rice milk, or nut milk 2 oz
- 2-4 oz Cold water
- ½-1 Banana

For a thicker smoothie, add ice and eliminate water.

If your smoothie is too gritty, add 1 tsp flax oil.

Basic Morning Shake

Ingredients

2 scoops	MediClear-SGS chocolate or vanilla
1scoop	FiberMend (optional)
1cup	Frozen fruit (organic berries are best)
8-10 oz	Water or unsweetened coconut milk
For a thinner shake, add more liquid, up to 10 ounces, and 1/2 cup of frozen fruit.	
For a thic	ker shake, add 3-4 ice cubes, only 8 ounces liquid and 1 cup of

Fo nd 1 cup of fruit and choose an "add-in" from the list below.

Blueberry Banana

Ingredients

- 2 scoops Whey Protein Isolate Vanilla
- 16 oz Liquid of choice (milk, coconut milk, almond milk, cashew milk, water, soymilk)
- Blueberries (frozen or fresh) 1 cup
- Banana (frozen or fresh)
- Walnuts ¼ cup

1

- 1tbsp Chia or flaxseed
- 1cup lce

Chocolate-Almond Delight

Ingredients

1scoop	Whey Protein chocolate or 2 scoops MediClear-SGS™ chocolate
10 oz	Water
1	Small banana (for a creamier shake, use a frozen banana broken into pieces)
1 tbsp	Almond butter
4-6	Ice cubes

Chocolate Coconut Joy

Ingredients

1 scoop	Whey Protein chocolate or 2 scoops MediClear-SGS chocolate
1 scoop	FiberMend (optional)
1 cup	Coconut milk
1 tbsp	Almond butter
⅓ tsp	Almond extract
Desired	Ice

Chocolate Orange

Ingredients

1 scoop	MediClear-SGS chocolate or $\frac{1}{2}$ scoop Whey Protein chocolate
1 scoop	FiberMend (optional)
1cup	Coconut milk
1	Peeled orange or 2 peeled tangerines
Dash	Cinnamon



Cocoa-Berry

Ingredients

1scoop	Whey Protein chocolate or 2 scoops $\ensuremath{Medi}\xspace{Clear}\xspace{SGS}\xspace{chocolate}$
1	Handful of berries (strawberry, raspberry, blackberry, etc – fresh or frozen)
10 oz	Water, unsweetened almond milk, or unsweetened coconut milk
4-6	Ice cubes
	(Also works with cherries)

Coconut Cashew Banana

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
8-10	Finely ground cashews
12-14 oz	Coconut milk
1 tbsp	Coconut milk yogurt
1⁄2	Banana



Smoothie recipes

Dark Chocolate Blueberry Spinach Power Shake

Ingredients

1 scoop	Whey Protein chocolate or 2 scoops MediClear-SGS™ chocolate
2	Handfuls raw baby spinach or baby kale or 1 scoop of Daily Greens Plus
1	Handful frozen blueberries

1-2 tbsp Dark cocoa powder (optional – but recommended)

8-10 oz Water, unsweetened almond milk, or unsweetened coconut milk

Greek Honey Yogurt

Ingredients

1scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla	
12-14 oz	Spring water	
2 tbsp	Greek honey yogurt (or a non-dairy yogurt substitute)	

Lemon Zip

Ingredients

1 scoop	MediClear-SGS vanilla	
1 scoop	FiberMend® (optional)	
1 cup	Coconut milk	
⅓ bunch	Organic parsley	
¾ cup	Blueberries (or other low-glycemic fruit)	
1⁄2"	Ginger root, sliced thin	
1⁄4"	Lemon slice, seeded, with the peel	

Mix well in a high speed blender. If you do not have a high-speed blender, omit the lemon peel.

Nutter Butter

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla	
1 scoop	FiberMend (optional)	
1cup	Coconut milk	
1 tbsp	Almond butter	
Desired	Ice	

Nutty Vanilla

Ingredients

1scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
¼ cup	Cashews blended with 4 oz of water until creamy
12-14 oz	Water
⅓ tsp	Organic vanilla powder or vanilla extract
1tbsp	Chia seeds
For a strawberry twist, add ½ cup organic strawberries	

Orange Creamsicle

Ingredients

2 scoops MediClear-SGS vanilla		
1	Peeled seedless orange	
8-10 oz	Water, unsweetened almond milk, or unsweetened coconut milk	
4-6	Ice cubes	
(Use chocolate MediClear-SGS for a chocolate-orange shake)		

Orange Standby

Ingredients	
2 scoops	MediClear® (Plus or SGS vanilla)
6 oz	Orange juice (fresh squeezed)
2-4 oz	Cold water
For a thicker smoothie, add ice and eliminate water.	

Orange Passion Fruit

Ingredients 1 scoop Mediclear-SGS™ vanilla or ½ scoop of Whey Protein vanilla ½ scoop Collagen Plus 2 oz Orange juice (fresh squeezed) 2-4 oz Cold water ½ Banana and/or ½ cup fresh or frozen fruit For a thiz smoothie, add ice and eliminate water.

Smoothie recipes

Peach Almond Berry

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla	
1 scoop	FiberMend (optional)	
1 cup	Unsweetened almond milk	
½ cup	Frozen peaches	
½ cup	Frozen berries	
¼ tsp	Pure vanilla extract	

Peaches and Cream

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla	
1	Fresh peach (small)	
10 oz	Water, unsweetened almond milk, or unsweetened coconut milk	
4-6	Ice cubes	
Dash	Vanilla or almond extract (if desired)	

Peach Cooler

Ingredients	
2 scoops	MediClear® (Plus or SGS vanilla)
6 oz	Pear juice
2 oz	Cold water
½ cup	Peaches (fresh or frozen)

Peanut Butter Chocolate

Ingredients	
1 scoop	Whev Protein choo

1scoop	Whey Protein chocolate or 2 scoops MediClear-SGS chocolate	
2 tbsp	Peanut butter	
10 oz	Water, unsweetened almond milk, or unsweetened coconut milk	
4-6	Ice cubes	

Pecan Coconut

Ingredients

- 1scoop Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
- **1 tbsp** Finely ground pecans
- 12-14 oz Coconut milk
- 2 Ice cubes





Piña Colada

Ingredients

6 oz

1scoop	Whey Protein vanilla or 2 scoops MediClear-SGS™ vanilla

2 oz Coconut milk

Pineapple juice Cold water 4 oz

Plum Ice

Ingredients

1 scoop	Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
1	Ripe plum (pitted)
10 oz	Water (you may like more in this recipe)
4-6	Ice cubes
Juice	1 lemon

Pumpkin

Ingredients

- 1scoop Whey Protein vanilla or 2 scoops MediClear-SGS vanilla
- 12-14 oz Coconut milk (another type of milk can be substituted)
- 3-4 tbsp Canned organic pumpkin
- 1/8 tsp Pumpkin pie spice

For extra richness, two tbsp of yogurt can be added (plain, vanilla, or honey yogurt, or a non-dairy "yogurt" such as yogurt made from coconut milk can be substituted).

Super Green Smoothie

Ingredients

1scoop Whey Protein vanilla or 2 scoops MediClear-SGS vanilla

- Handful of baby spinach or 1 scoop Daily Greens Plus 1
- Banana (fresh or frozen) 1/2
- 1tbsp Almond butter
- 10 oz Water or coconut water

Tart & Tasty

Ingredients

- 2 scoops MediClear® (Plus or SGS Vanilla)
- 2 oz Pomegranate juice
- 2 oz Pear juice
- 1/2 cup Raspberries (fresh or frozen)
- Cold water 4 oz

Tropical Smoothie

Ingredients

1scoop Collagen Plus Mango (in cubes) ¼ cup ½ cup Pineapple chunks (frozen is great) 10 oz Water or coconut water 4-6 Ice cubes

Non-smoothie recipes

Basic Overnight Protein Oats

Ingredients

- 1/2 cup Rolled or steel-cut oats
- 1/2 1 tbsp Sweetener of choice
- 3/4-1 cup Milk of choice (dairy, oat, nut, soy, etc.)
- Pinch salt
- 1scoop Whey Protein Isolate Vanilla
- Add-ins Berries, bananas, honey, cinnamon, vanilla, cinnamon, nuts or seeds, chocolate bits

Directions

Combine dry ingredients in a bowl or container (I use a mason jar) and mix to incorporate.

Add your milk of choice.

Refrigerate overnight (or until liquid is absorbed if you're eating later in the dav).

Add extra liquid (milk of choice, honey, syrup, yogurt, etc.) and stir to desired consistency.

Top with the add-ins you like and serve.

Collagen Scrambled Eggs

Ingredients

- 1tbsp Olive oil
- 1⁄4 Red bell pepper
- 1 handful Kale or baby spinach
- 3 Eggs
- Milk ¾ cup
- 1scoop Collagen Fit

Directions

Grease a pan with olive oil. Chop up bell pepper and kale (or baby spinach) into small pieces. Add chopped ingredients into a bowl with eggs, milk, and Collagen Fit.

- Whisk until all ingredients are evenly mixed.
- Pour into pan. Cook on low heat and flip with spatula as eggs cook. Serve onto plate.

Gluten Free, No-Bake Chocolate Protein Bars

Ingredients

½ cup	Any milk you prefer – we used unflavored/unsweetened almond milk
1 cup	Unsalted, raw almond butter
1 tbsp	Honey
1¾ cup	Whey Protein Isolate Chocolate
2 cups	Uncooked oats
½ cup	Unsweetened coconut flakes
½ cup	Dried chopped cherries

This classic coconut and cherry combo is delicious and adds great texture - but you could use anything you like - and don't forget to try our Whey Protein Isolate Vanilla as the base to open up a host of new flavor combinations. We've also made these bars with dried hemp seeds, cranberries, and mini dark chocolate chips, which were a hit. Be brave and mix and match your add-ins to create new tasty versions.

Directions

Make sure all ingredients are at room temperature.

Lightly oil a 9 x 11-inch pan or baking sheet.

In a large mixing bowl, **combine** almond butter, honey, and milk.

Add protein powder and mix well. It's going to start to get hard to mix, so be ready to put some muscle into it.

Add the oats. If it's way too thick/dry to mix, then add a little more milk start with a tablespoon. If you add too much liquid the bars will be very sticky and might not hold up very well. We usually give up on the spoon at this point and knead with our hands like a dough - messy, but fun and honestly more effective.

Add coconut and cherries and combine well

Press bars into the pan until they are flat and even and cover the whole bottom of the pan. Use a sharp knife to score them into your preferred size/ shape.

We recommend keeping them in the fridge, or they get pretty soft. Keep the bars in the fridge in an airtight container – they usually last 7-10 days.

Yield – 12-16 bars



Non-smoothie recipes

Non-smoothie recipes

Gelatin Shots

Ingredients

Adapted from the UC Davis original recipe and makes eight servings

80 grams Gelatin (1/2 cup or 10 packets of most brands)

1cup Water

2 cups Other liquid (choice of juice/liquid for flavoring, or additional water and use a natural sweetener to taste)

500 mg Vitamin C

1/2 capsule Thorne's Ascorbic Acid

 ¼ scoop
 Thorne's Buffered C Powder (for additional calcium, magnesium, and potassium)

Directions

Bring the two cups of other liquid to a **boil**.

Mix the gelatin and vitamin C into one cup of room temperature water.

Add the boiling liquid to the gelatin/vitamin C mixture.

Pour into a flat tray or a silicone ice cube tray in eight equal parts.

Place in the refrigerator.

If using a flat tray, **divide** into eight equal pieces.

Options – Maximize this fun delivery system by experimenting with different liquids – such as vegetable or fruit juice – and by adding other nutrients.

We've seen Thorne's Catalyte[®] used as the "other liquid" to support hydration, while others have added other foundational supplements such as magnesium, iron, or vitamin D.

In a hurry? Athletes can mix 15 grams of gelatin powder into a vitamin C-containing liquid and consume the liquid without waiting for it to set.

Passion Berry Yogurt

Ingredients

- 1scoop Collagen Plus
- 34 cup Plain Greek yogurt
- 11/2 tbsp Gluten-free rolled oats
- Optional: Add a few raspberries or blueberries

No-Bake Nutrition Bar

Ingredients

While we have tried many protein bar recipes, this one has a mix of protein, carbohydrates, and fats, with minimal ingredients and endless options to customize, and kids can easily make them because they don't require baking.

- 11/2 cup Rolled or quick oats
- 1/2 cup Nut butter of choice
- 1/2 cup Honey or agave
- **3-4** Scoops Whey Protein Isolate Vanilla (you can adjust the amount of protein for desired consistency)
- Add-ins Berries, bananas, honey, cinnamon, vanilla, cinnamon, nuts or seeds, chocolate bits

Directions

Stir all ingredients together until well mixed.

Transfer to an 8x8-inch pan with wax paper - you can use different size pans for different thickness (we used a square silicone muffin pan)

Line the top of the mixture with another sheet of wax paper and press down to create uniform height (if you have another 8x8 pan, then place it on top and press down)

Freeze until hard, then cut into bars of the desired size

These bars can keep in the freezer for up to a month.

Yield – 10-12 bars

RecoveryPro® Hot Chocolate Recipe

Ingredients

This simple recipe uses RecoveryPro – a chocolate-flavored whey protein blend with additional supplements to promote restful sleep.* A delicious bedtime treat.

1scoop RecoveryPro

8 oz Either hot or cold water around bedtime



Protein-Infused Cold Brew

ngredients
5

- 1/2 cup Coffee beans
- 4 cups Water
- 1 scoop Whey Protein Isolate (Chocolate or Vanilla depending on preference)

Optional: 1/2 cup of your favorite milk

Directions

Measure and grind coffee beans.

Pour the coffee grounds into a mason jar.

Pour water and stir until evenly mixed.

Steep for 16 hours unrefrigerated or for 24 hours refrigerated.

Tip: For fullest flavor, steep for 36 to 48 hours.

Strain cold brew: Place coffee filter holder and filter over top (a flour sack cloth also works) and **pour** into large bowl.

Transfer into a cup for drinking. Put the remainder in a clean jar and store in the refrigerator for **up to one week**.

Add protein powder to cup and stir.

Optional: Dilute cup with as much water or milk as you prefer and stir.

Thorneberry Punch

Ingredients

Prepare the Amino Complex Berry by mixing one scoop in 6 ounces of water; shake thoroughly.

2 oz Amino Complex Berry mixture

2 oz Coconut water

2 oz Cranberry juice

Serve over ice with a squeeze of lime.

Delicious way to support lean muscle.



Whey Ice Cream

Ingredients

Whey Protein Ice Cream Base

14 oz	Whole milk/coconut milk/almond milk
2 oz	Whipping cream
4 oz	Half-and-half (or substitute a flavored creamer for variety; but if you go this route, be sure to look for products that meet your dietary preferences)
¼ cup	Sour cream
2 scoops	Whey Protein Isolate Chocolate or Vanilla
½ tsp	Xanthan gum

1tsp Gelatin

To taste – Up to one cup of sugar – or its equivalent of your preferred sugar substitute/sugar-free flavoring syrup. (Note: Thorne's Whey Protein Isolate, available in chocolate or vanilla flavor, is already naturally sweetened)

Note – If you use lower fat milk/non-dairy options, then double the amount of gelatin and xanthan gum.

Flavor options – coffee, nuts, frozen fruits, flavored syrups, or additional vanilla extract or cocoa powder.

Directions

Mix all ingredients together except the xanthan gum, gelatin, and optional flavorings (especially if solid). If ingredients are not chilled, then place in the freezer or refrigerator to chill.

Tip – Mix the ingredients in a blender or use an immersion blender.

In a blender or using an immersion blender, **slowly add** the gelatin and xanthan gum, incorporating as best as possible on very low speed.

Alternate – very slowly whisk in the xanthan gum and gelatin, being mindful to break up any clumps of the powder.

Follow the directions on your ice cream maker, adding solid ingredients (fruit, nuts, cookie pieces, or whatever you choose) toward the second half of your machine's recommended mixing time.

Alternate – Although the outcome won't be quite the same, we have a hack for those without access to an ice cream maker. After the xanthan gum and gelatin are incorporated (we highly suggest blending) pour the mixture into ice cube trays and let the cubes partially freeze before blending to achieve an ice cream like texture.

Yield — 1.5-2 quarts

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