

ProTake

UNLOCKING APPLICATION POTENTIAL

Enhance your liquid formulations with highly soluble hydrolyzed collagen



Take your powder blends, premixes, soups and ready-to-drink formulations to the next level. Rousselot®, the world's leading collagen producer, introduces its hydrolyzed collagen range, ProTake™.



High-quality, natural protein source



Formulation-friendly sensory profile



Pure protein



Carbohydrate and fat free



Unique amino acid composition

Rousselot
Health & Nutrition

When working with liquid formulations, the solubility of dry ingredients is paramount.

To achieve instant solubility in hot and cold conditions, a fine-tuned drying technology is needed. This solubility – among other parameters – is linked to the density of ingredients in powder format. If you want to combine a high concentration of ingredients in the same formulation, good solubility is required with adapted molecular weight. Rousselot's ProTake ingredients are specifically designed to be highly soluble in liquid even at high concentration.

Thanks to the finetuned drying technology Rousselot uses, ProTake is easy to handle and clean. There is no dust in the atmosphere during the formulation process.

ProTake is compatible with a wide range of ingredients – it can be integrated seamlessly in formulations.



A closer look at ProTake



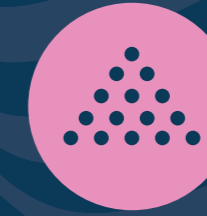
Physically, chemically and bacteriologically stable



Heat and pH stable



Shelf stable for over 5 years when stored in dry conditions and under normal temperatures



No lumping or caking

How does ProTake behave in liquids?



Easy to use



Soluble



Compatible

- Formulation-friendly sensory profile
- Instant properties linked to the adapted density. Quickly dispersed in water without lumps.
- Highly soluble in cold and warm liquids
- Flowability: Powder integrates easily and flows well under different circumstances, e.g. easy to pour in container, sachet, equipment.
- Soluble at high concentration thanks to its low molecular weight
- Compatibility: Highly compatible with other proteins and ingredients.
- Right viscosity for high protein drinks – can add smoothness and thickness

Knowledge corner

Tackling formulation challenges

Foaming

Hydrolyzed collagen is a protein and protein solutions are prone to foaming. Therefore, it is very important to understand the foaming properties of your ingredient. In some cases, foaming is not wanted, in other cases, a stable foam is desired.

ProTake is highly soluble. Therefore, when integrating the powder blend with ProTake into the liquid, it may be necessary to adapt the stirring speed of your equipment to achieve the desired level of foaming.



On these, and all formulations challenges, speak to the Rousselot team for tailored advice.

Recipe inspiration

At Rousselot, we want to help our customers develop products that consumers will love. Here is a selection of our favorite flavor profiles using ProTake:



Vanilla, Chocolate, Caramel

Depending on the ProTake concentration in liquid, these popular flavors can be adapted in the final formulation.



Citrus or other fruity flavors

The freshness, the lightness and sour touches give a nice combination with ProTake in powder that can be used in RTD cold drinks.



Savory and spicy

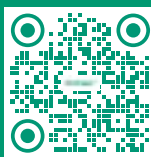
Can be used in interesting cold liquid formulations, such as gazpacho, and hot liquids such as bone broth and tomato soup.

Recipe (for 100kg of finished product)

(a) Rousselot® ProTake	3.2kg
Tomato juice powder (Diana Naturals)	7.4kg
Potato starch	3kg
Whole milk powder	2.7kg
Tomato flakes (Diana Naturals)	2kg
Sub4salt (Jungbunzlauer)	1kg
Corn starch	1kg
Onion juice powder (Diana Naturals)	0.9kg
Sugar (sucrose)	0.5kg
Garlic (powder)	0.2kg
Ground Cayenne hot chilli pepper	0.1kg
Ground cumin	0.1kg
Citric acid monohydrate	0.07kg
(b) Water	77.56kg

Nutritional facts

	For 100g	3.2kg
Energy	77kcal	150kcal
	327kJ	634kJ
Fat	0.9g	3kg
of which – saturates	0.5g	2.7kg
Carbohydrate	13g	2kg
of which – sugars	3.9kg	1kg
Protein	4.3kg	1kg
Salt	0.9kg	0.67kg



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Spicy high protein soup

With ProTake, it is easy to reach a high level of protein in a wide range of food products whether sweet or savory. Cooked tomato also benefits your body with its lycopene antioxidant properties. This low fat and high protein creamy soup made with cooked tomato and ProTake is your perfect partner for a healthy diet. ProTake is available in both porcine and bovine versions.

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