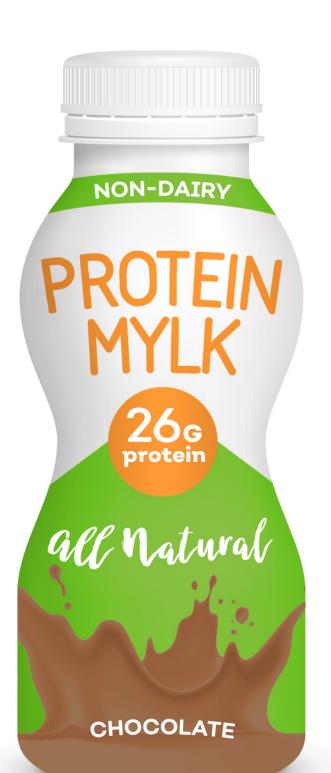
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BEVERAGESOLUTIONS



Plant-Based Ingredients for Beverage Applications

Harnessing allergen-friendly, high-protein benefits.
Overcoming formulation challenges.











Plant Powered Proteins • Sweeteners • Dairy Alternatives

Axiom Foods, known as the world's largest and most innovative manufacturer and distributor of organic, patented, chemical-free, hexane-free and allergenfriendly Oryzatein® Brown Rice Protein since 2005, is now capable of meeting your beverage application needs with our versatile product lines. These not only include the Oryzatein® Rice Protein, but also VegOtein P™ Organic Pea Protein, Incatein™ Sacha Inchi Protein and now Cannatein® Organic Hemp Hearts Protein, plus whole grain dairy milk-substitutes for most any beverage requirement.

Axiom Foods Ingredients for Beverage Functionality

Axiom Foods' plant-based proteins work best in Low Acid environments and with gums to aid in solubility. High Acid formulations work best when using low amounts of plant-based proteins as they have been shown to denature in high acid and heat environments.



VEG-9-TEIN

INCATEIN™

ORYZ-O-LAIT™

AVENOLAIT°

oRYZA™

| Product | Low Acid pH 7.0 heated to >240F Refrigerated and Aseptic | High Acid pH <3.5 heated to >180F |
|------------------------|--|---|
| Plant Proteins | | |
| Oryzatein (Rice) | Very Good | Good |
| Oryzatein Silk | Very Good | Good |
| Oryzatein Ultra | Very Good | Very Good |
| Oryzatein SG-BN | Best | Best |
| Vegotein P80 (Pea) | Best | Good |
| Vegotein MA | Best | Best |
| Incatein (Sacha Inchi) | TBD | TBD |
| Dairy Alternatives | | |
| Oryzolait (Rice) | Best | Good |
| AvenOlait (Oat) | Best | Best |
| Sweetener | | |
| Oryza (Rice) | Best | Best |

YOUR BRAND HERE

YOUR BRAND HERE



Axiom Foods RiceMilk Beverage Examples Aseptic Processing Formulas

We understand the challenges our customers are facing and are here in L.A. since 2005 to help find solutions. What follows is an example, generic starting formula. From here 5–10 grams per serving of our rice protein can be added to achieve a nice tasting, protein-rich, nutrient-dense milk alternative.

| Axiom Foods RiceMilk Beverages All Flavors | | |
|--|---------------------|--|
| Equipment Cleaned/Sanitized | 1 | |
| pH | 6.58 | |
| Brix | Not tested | |
| Flavor | Approved | |
| Target Lethality (F ₀) | 5 | |
| Microthermics Check | | |
| Flowrate (Target 1.5 L/min) | 1.5 L/m | |
| Preheater Temp | 200°F | |
| Final Heater Temp | 284°F | |
| Hold Time at Target Temp | 10 sec. | |
| Temp at End of Hold Tube (EH1) | 277–280.5°F | |
| Cooler 1 (Target 140–160°F) | 158°F | |
| Homogenizer Pressure (psi) | 2000+500 | |
| Cooler 2 | 93.2°F | |
| Product Exit Temp | 87.8°F | |
| Number of Containers Produced | 18/16 oz | |
| Storage Location | Refrigerator (40°F) | |

| RiceMilk Beverage — Original | | |
|------------------------------|---------|--|
| Water | 90.129% | |
| OryzOlait™ | 9.000% | |
| Oil Canola | 0.500% | |
| Vitamin Premix | 0.240% | |
| Carrageenan | 0.015% | |
| Salt | 0.100% | |
| Vanilla 3X | 0.016% | |

| _ | RiceMilk Beverage — Chocolate | | |
|---|-------------------------------|---------|--|
| | Water | 84.925% | |
| | OryzOlait [™] | 9.000% | |
| | Sugar | 4.000% | |
| | Oil Canola | 0.500% | |
| | Nat Chocolate Flavor | 0.200% | |
| | Cocoa Powder | 0.850% | |
| | Vitamin Premix | 0.240% | |
| | Vanilla 3X | 0.090% | |
| | Carrageenan | 0.015% | |
| | Salt | 0.180% | |

Also Checkout an OatMilk Beverage Starter Formulation

| OatMilk Beverage — Original | | |
|-----------------------------|--------|--|
| Water | 240.00 | |
| AvenOlait® | 20.00 | |
| Cane Sugar | 4.00 | |
| Salt | 0.10 | |
| Natural Vanilla Extract | 0.04 | |



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ph 800.711.3587 • fx 310.857.6747 www.axiomfoods.com info@AxiomFoods.com Does this answer some questions but not all? Also ask about example starting formulas for...

- Avenolait® Oat Dairy—alternative beverages
- VegoteinTM Pea Protein—beverages
- · High-Acid beverage applications

Coming Next!

Axiom Foods' Innovation Team plans to expand and meet the beverage application purposes of Carbonated and Alcoholic beverages in the near future, so stay tuned.

Quality certification and analysis plus spec sheets are available for all Axiom ingredients, upon request at:

info@axiomfoods.com

