

APPLICATIONS

BEVERAGE SOLUTIONS



AXIOM[®]
F O O D S
Global Plant Proteins & Ingredients
From Innovation to Supply

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 allergen-friendly **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.

ORYZATEIN®

VEG--TEIN™

INCATEIN™

ORYZ-O-LAIT™

AVENOLAIT®

ORYZA™

Product	Low Acid pH 7.0 heated to >240F <i>Refrigerated and Aseptic</i>	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



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	✓
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%
Canola Oil	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%
Canola Oil	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	
8 oz serving	
Water	240.00
AvenOlait®	20.00
Cane Sugar	4.00
Salt	0.10
Natural Vanilla Extract	0.04

Does this answer some questions but not all?
Also ask about example starting formulas for...

- **Avenolait® Oat Dairy**—alternative beverages
- **Vegotein™ 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.



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

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