The Best of Both Worlds

Combining Dairy and Plant Proteins in Cultured Products

This presentation has been significantly redacted.



Hillary Sandrock

Merlin Development

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Dairy Yogurt



- Inoculate dairy milk
 - Streptococcus thermophilus
 - Lactobacillus delbrueckii subsp. bulgaricus
- Cultures feed on lactose, produce lactic acid
- Casein aggregates at pH 4.6, creates gel structure



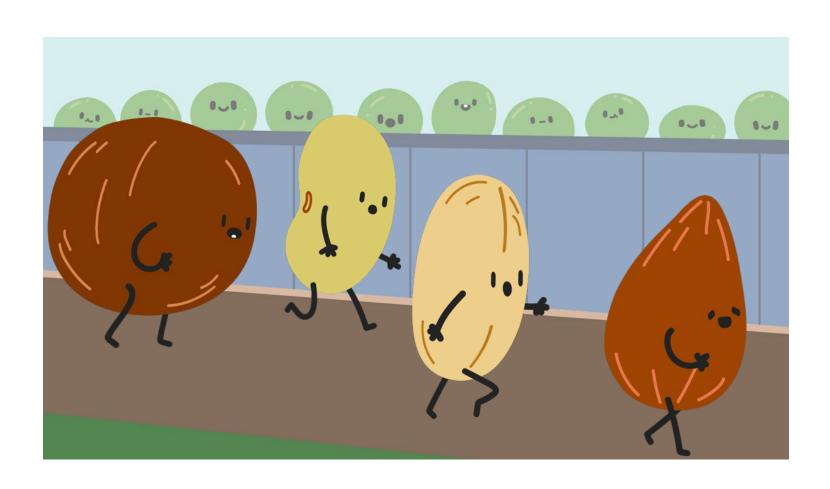
Plant-Based Yogurt



- Base composition
 - Protein
 - Fat
 - Carbohydrates
 - Texturizers
- Longer fermentation time



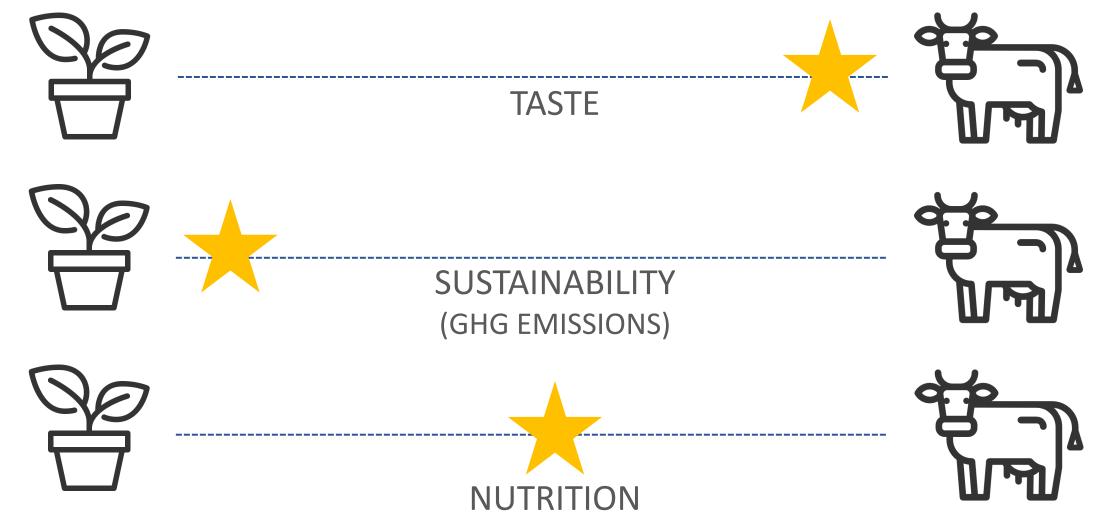
Most Popular Plant-Based Milks



- 1 Almond
- 2 Oat
- 3 Soy
- 4 Coconut

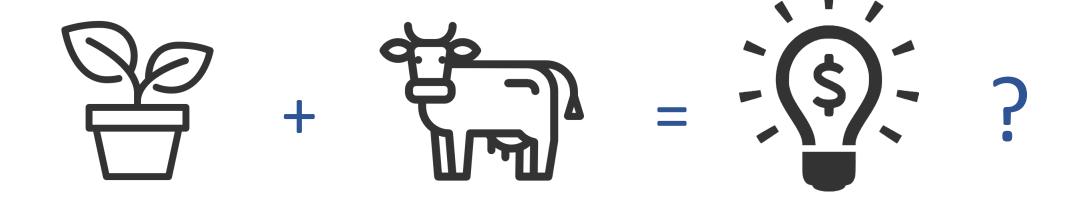


Plant-Based vs. Dairy: Who Wins?



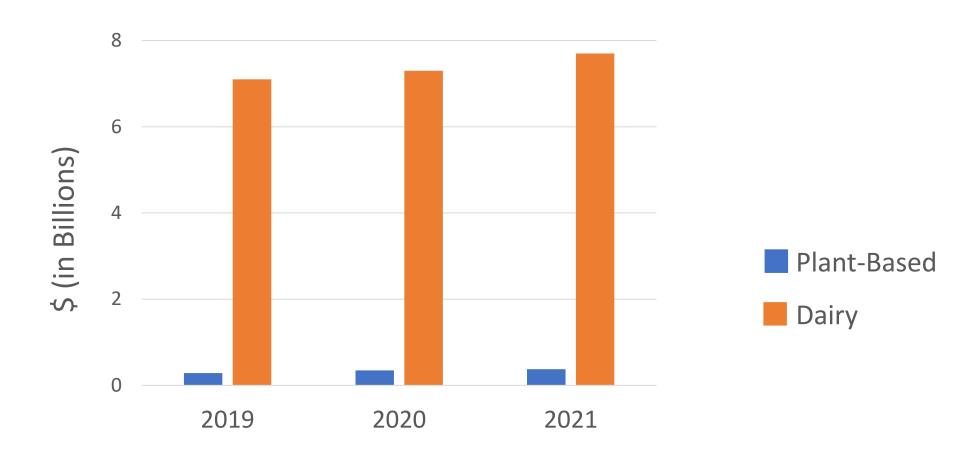


Combining Dairy and Plant Proteins





Plant-Based vs. Dairy Yogurt Sales





Merlin Development Sensory Panel

- Objective: Characterize sensory properties of dairy, plant-based, and blended yogurt samples
- 4 different retail plain yogurt products (3-4% protein)
 - Dairy
 - Almond
 - Soy
 - Oat + Chickpea
- Appearance, texture, and flavor attributes rated on 60-pt scale
- Overall liking rated on 9-pt scale



Blended Samples

100/0 75/25 50/50 25/75 0/100 Dairy / Almond Blends Dairy / Soy **Blends** Dairy / Oat + **Chickpea Blends**



Looking for more information? Contact Merlin Development.

Hillary Sandrock
Merlin Development
hsandrock@merlindev.com



