

# CLEAR PROTEIN BEVERAGES: TRENDS AND FORMULATION SOLUTIONS



# **PRESENTERS**



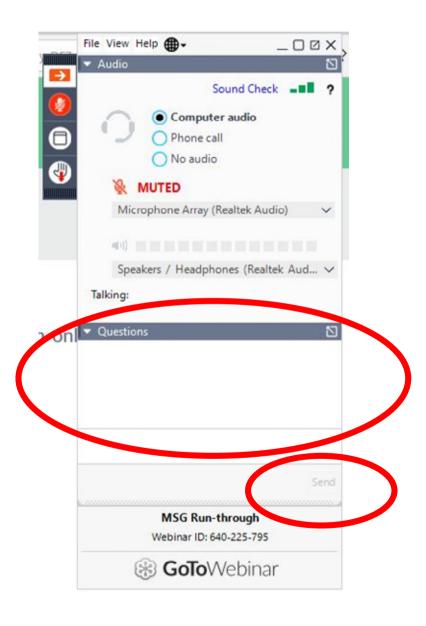
Merris Greiber Marketing Lead



**Suvash Kafley**VP Research & Development

# LIVE QUESTIONS & ANSWERS





Type your questions in the "questions" text box and send.

All questions will be answered live, not in a written response.

# MAILK SPECIALTIES GLOBAL



# A LEADER IN DAIRY PROTEIN PRODUCTION

1949

MIDWEST DRIED WHEY, INC

1965

MILK SPECIALTIES COMPANY

1970's – 90's

**EXPANSION & FOCUS IN ANIMAL NUTRITION** 

2000's - Present

**EXPANSION INTO HUMAN NUTRITION** 

#### **HUMAN NUTRITION**

- Sports Nutrition
- Food Manufacturing
- Health & Wellness





#### **ANIMAL NUTRITION**

- Dairy Animals





#### **CO-MANUFACTURING**

- Sports Nutrition
- Food Manufacturing
- Animal Nutrition





# **CORE HUMAN NUTRITION INGREDIENTS**

#### **WHEY PROTEIN**

- Whey Protein Concentrate 34%-80%
  - Regular and Instant
- Whey Protein Isolate 90%
  - Regular and Instant
- Whey Protein Hydrolysates
  - DH 3-20
  - Regular and Instant
- Heat Stable
  - WPC 70 & 80

#### **MILK PROTEIN**

- Milk Protein Concentrates 70%-80%
  - Regular and Instant
- Milk Protein Isolate 90%
  - Regular and Instant
- Calcium Caseinate
  - Regular and Instant
- Sodium Caseinate
- Casein

#### **BRANDED INGREDIENTS**

**PRO**bev<sup>™</sup>

**BARsoft**<sup>TM</sup>

**MultaPRO™** 

**PRO**riz™

**ZERLAC**<sup>TM</sup>

**CASPRO**<sup>TM</sup>

MusclePep™









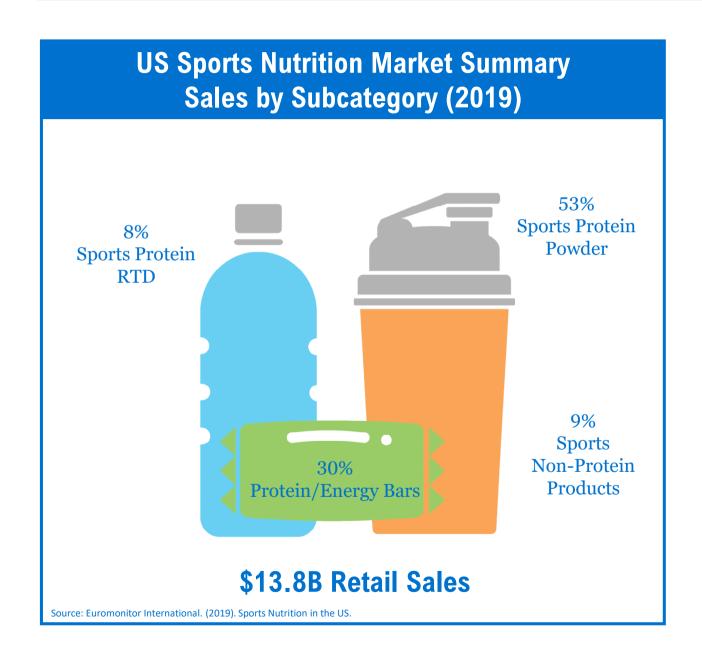


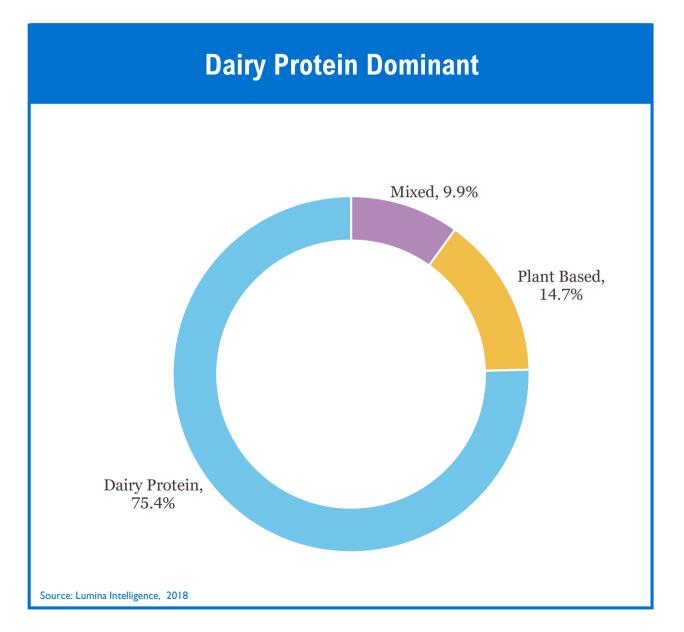


# PROTEIN BEVERAGE TRENDS

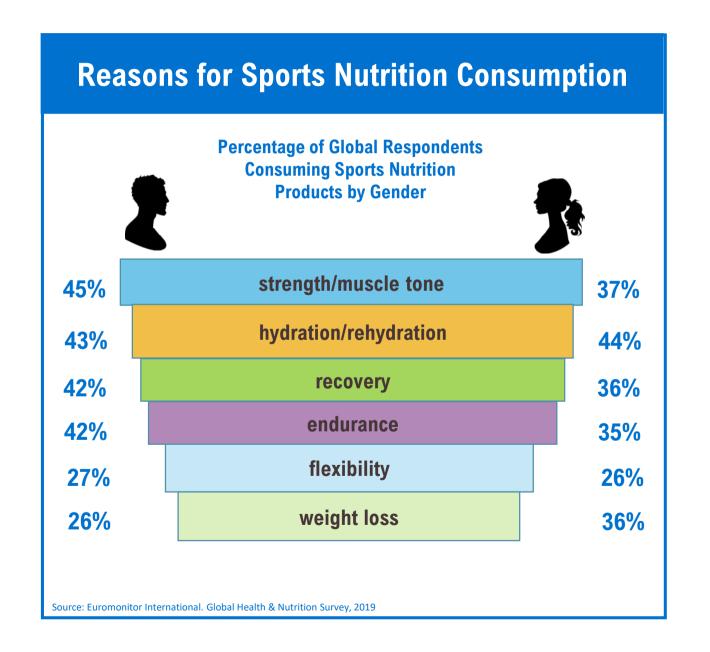


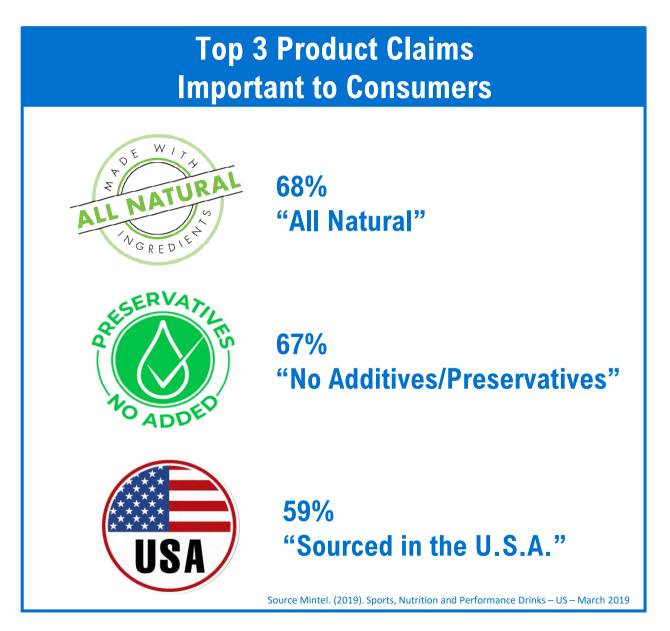
# SPORTS NUTRITION - PROTEIN IS STRONG





# DRIVERS OF CONSUMER CONSUMPTION





# **EXPANDED AREAS FOR SPORTS NUTRITION**



**NATURAL:** Its role is increasingly important for consumers of sports nutrition. Natural ingredients change the artificial perceptions that consumers sometimes have about certain sports products.



**BALANCED NUTRITION:** Nutrition information on sports nutrition products such as sugar content, fats and calories are being looked at very closely by today's consumers who want to adopt healthier eating habits.



**EMPHASIS ON INNOVATION AND TASTE:** For consumers, the good taste of sports nutrition products and the innovation of flavors are as important as the functionality of the product. They are interested in the nutritional benefits but above all, the good taste of the product.

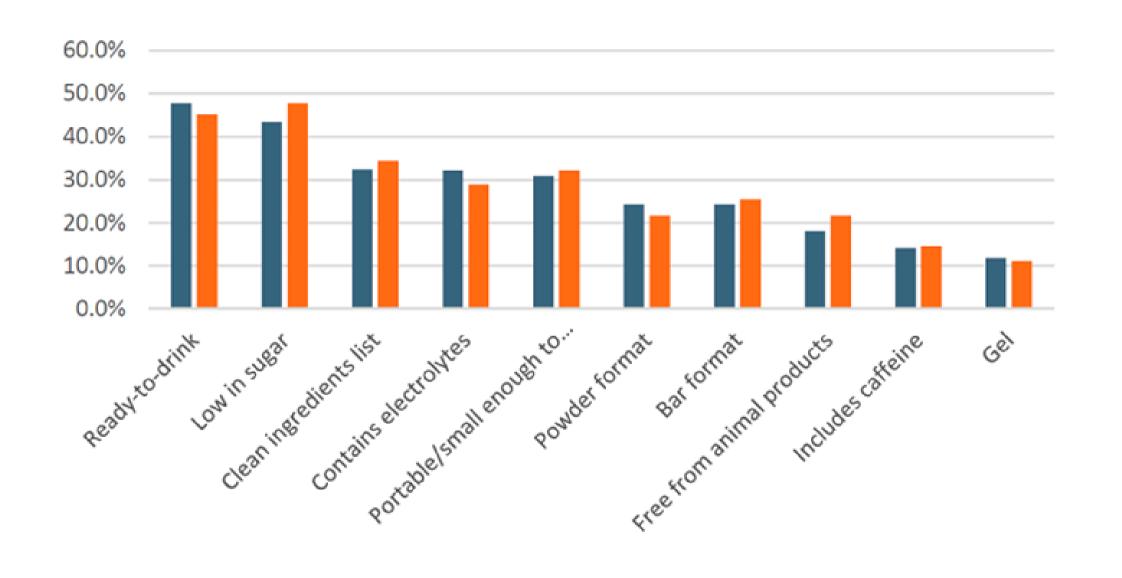


#### TARGETING SPECIFIC NEEDS:

Complex formulations can intimidate consumers.

Products should target specific needs and use simple messages that highlight the health benefits of each product.

### SOUGHT-AFTER SPORTS NUTRITION FEATURES



■ Male ■ Female

### LOW PH PROTEIN IS DRIVING GROWTH

#### What is Low pH RTD & RTE?

- pH between < 5</li>
- Dominant Protein is Whey-Based
- Process:
  - Formulation
  - Aseptically/UHT or retort/canning processed
  - Hot-Fill (shelf-stable RTD)
  - Blending (Ready to Mix)

#### Low pH Growth Drivers

- Shelf Stable Convenience
- Less likely to achieve consumption fatigue
  - Pleasing taste, clean texture
     & fruity, acidic flavors
- Adaptable levels of protein to meet targeted consumers
- Modifiable for specialized functional attributes

#### **Applications**

- Ready to Drink
  - Protein Beverage
  - Functional Beverage
  - Protein Fortifier (Fruit Juice, Coffee, Tea)
- Ready to Mix (Protein shakes)
- Gummies
- Gels
- Ice Pops/Frozen Desserts

# CLEAR PROTEIN: SPANS BEHAVIOR & DEMOGRAPHICS

Provides mainstream athletes and health seekers with benefits that support their overall health and wellness goals...

Sports Nutrition Active Nutrition Functional Foods



















# **CLEAR PROTEIN SENSORY CONSIDERATIONS**

#### **Texture**

- Extremely low viscosity
- Modifiable for the medium

#### Mouthfeel

- Low astringency
- -No Graininess
- Not Milky/Chalky

#### **Taste**

- -Lacks protein "taste"
- -Supports acidic flavor profiles



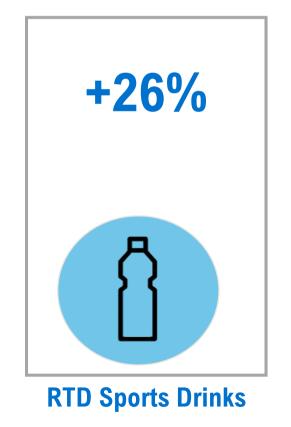


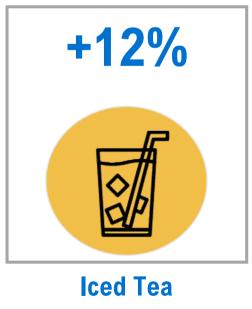




# RTD SPORTS DRINKS LEAD GLOBAL INNOVATION

# Global Beverage New Product Introduction: Fastest Growing Beverage Categories





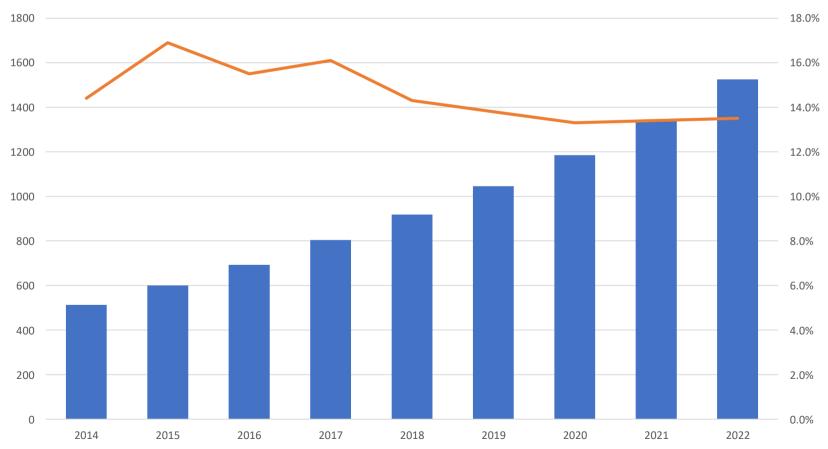




# RTD CONTINUES TO LEADS GROWTH

# RTD FUNCTIONAL BEVERAGE SALES & GROWTH

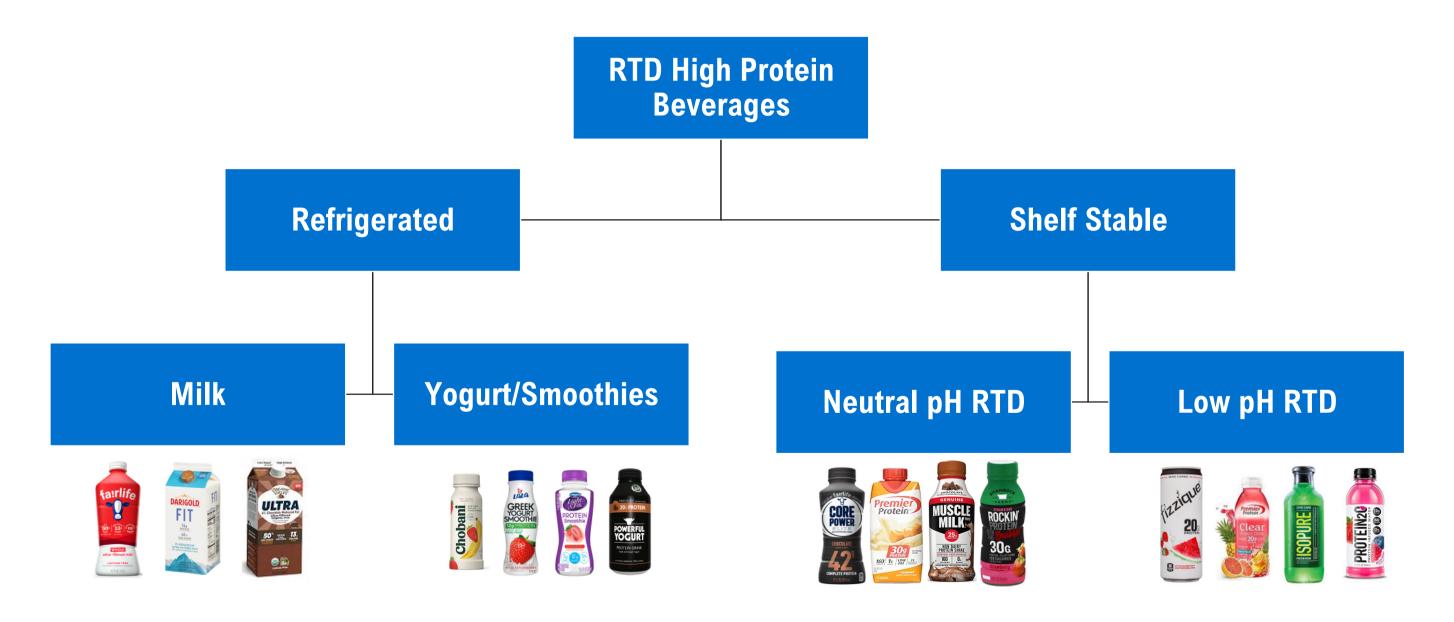
**2014 – 2022 (PROJECTED)** 



#### **RTD Functional Beverages**

- 2.2% of Total Sports
  Nutrition & Weight
  Management Category
- Category Growth +14.3%
- \$919 Million Annual Sales (2018)
- Mainstream consumption driving growth
  - Convenience
  - Meal Replacements
  - Protein Fortification

# **DIVERSITY IN RTD SUB-CATEGORIES**



### RTM PROTEIN POWDERS

#### **RTM Protein Powders**

- 12.7% of Total Sports Nutrition & Weight Management Category
- Category Growth +6.9%
  - Growth expected to remain relatively flat
- \$5.7B Annual Sales (2019)
- E-Commerce driving sales
- Become a "Pantry Staple"
  - Meal Replacements
  - Protein Fortification

# SPORTS NUTRITION POWDERS SALES AND GROWTH

2014-2022e



### PROTEIN POWDER - A PANTRY STAPLE

Protein Powders are leaving the weight room and entering the shopping carts...

#### **FUNCTIONALITY**

- Meal Replacement
- Functional health
- Satiety
- Protein "health halo"
  - Smoothies
  - Baking
  - bars

#### **TRANSPARENCY**

- Ingredients
- "Clean Label"
- Sourcing

# INNOVATIVE OFFERINGS

#### **Added Benefits**

- Fiber
- Additional nutrients
- Physiological effects

#### Source/Form

- Clear vs. Milky
- Flexitarian / Vegan



# **DIVERSIFICATION IN FLAVOR**

# "Traditional" Milky Protein

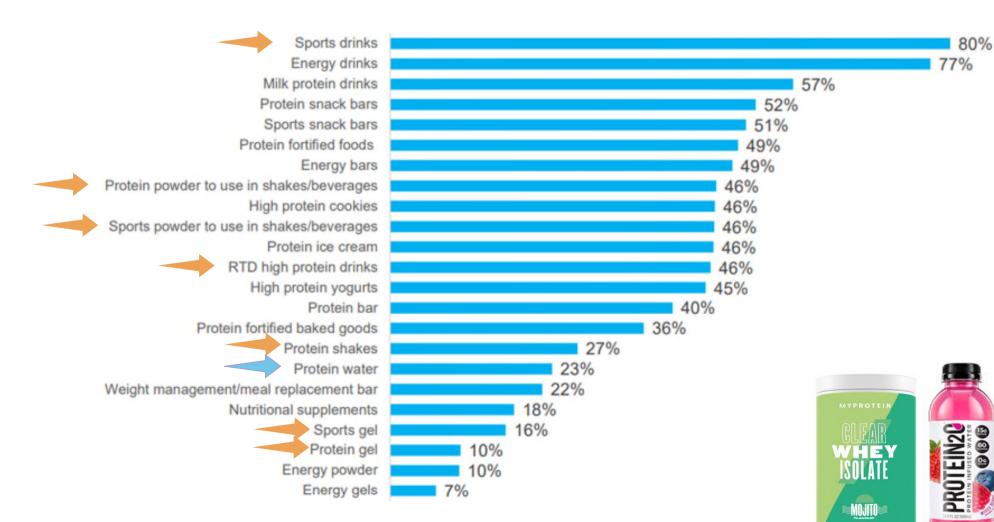


# **Clear Protein**



### PROTEIN BEVERAGES HAVE STRONG REACH

#### Proportion of consumers who have tried the following products in the US over the last six months, 2019



Clear

# SUPPORT IN-MARKET TRENDS

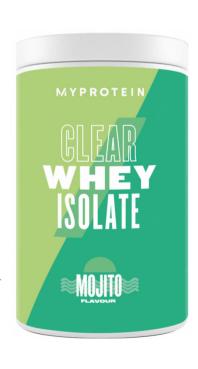
RTD's continue to lead sports nutrition and beverage category growth

Consumer base is expanding from sports nutrition to functional health

Clear Protein waters especially appeal to hydration seekers

Natural, "Clean,"
vegan, low fat, nondairy and lactose free
among fast growing
label claims

Global Trend.
North America is
the leading
market, Europe
follows









Fruity Flavors and clean mouthfeel especially appeals to women

# AND ADAPTABILITY TO EMERGING TRENDS

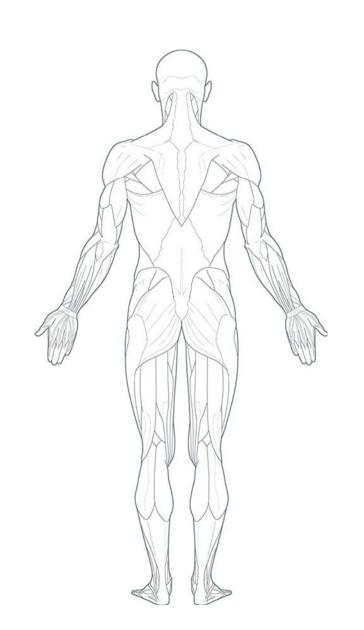
**STRESS & RELAXATION SUPPORT** 

**FATIGUE RELIEF** 

**BONE, MUSCLE, JOINT HEALTH** 

**CARDIOVASCULAR HEALTH** 

**HEALTHY AGING** 



BRAIN & NOOTROPICS (memory and brain function)

**IMMUNITY** 

**INNER BEAUTY** 

**ANTI-INFLAMMATORY** 

LIVER DETOX



Suvash Kafley VP, Research & Development Milk Specialties Global

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