



CLEAN LABEL CONFERENCE

Sophisticated Solutions for Simplified Labels

October 29-30, 2013 • Hyatt Lodge, Oak Brook, Illinois, USA

2013 Technology Snapshot Presentation

Clean Label & Acacia Gum

By: Nexira

CLEAN PRESERVATIVES FREE **organic NATURAL** Pure He
NO Additives **GMO free nature RAW** All natural **ORIG**
locally produced **Wholesome** NO PRESERVATIVES safe **na**

Clean Label & Acacia Gum

Teresa Yazbek

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nexira
FOOD



nexira
HEALTH



nexira
TECHNOLOGY



Expert in innovative natural ingredients. World leader in acacia gum

Fibregum™
 Thixogum™
 SuperStab™
 Instantgum™

Active botanical extracts with multiple health benefits

VINITROX™
 Exocyan™
 Serenzo™
 Oli·Ola™
 ID-alG™
 CactiNea™

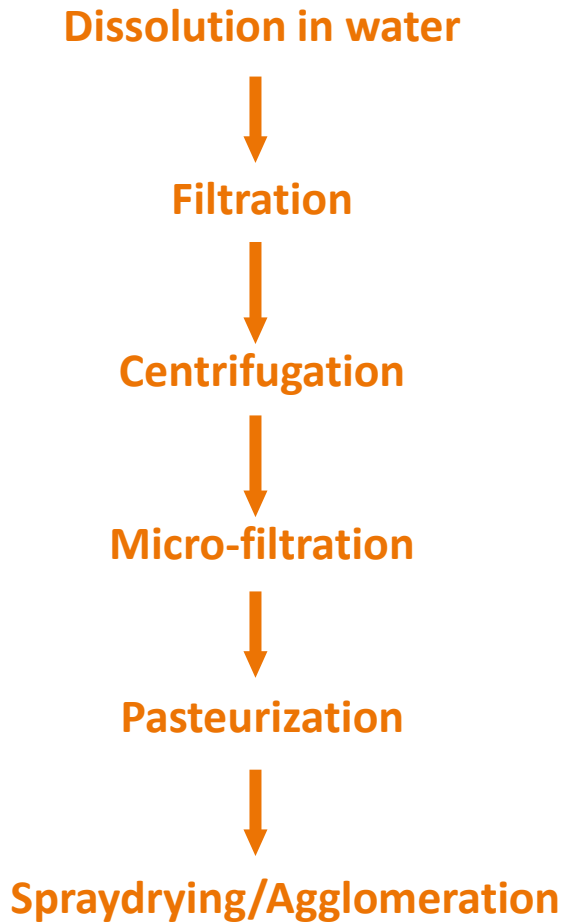
Extensive expertise in spray drying and encapsulation technologies

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- ❖ **Natural ingredient** with multifunctional properties
- ❖ **GRAS** additives with a « natural sounding » name
- ❖ **Sustainably** sourced raw material
- ❖ **Minimally processed** ingredient, no chemical treatment or enzyme modifications
- ❖ **Nutritional** benefits
- ❖ Suitable for a wide range of food applications
- ❖ Label: Acacia, acacia gum, **acacia fiber**, gum arabic
- ❖ GMO-free, **organic**, Kosher & Hallal certified
- ❖ Well perceived by **consumers**



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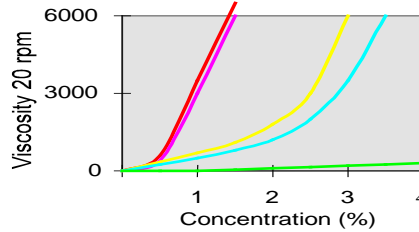
**Result: All-Natural
Ingredient**

Unique low viscosity hydrocolloid

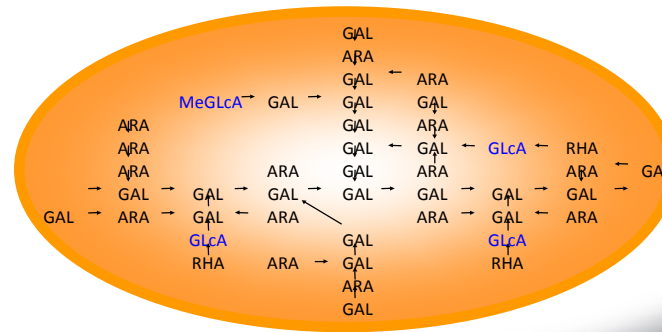
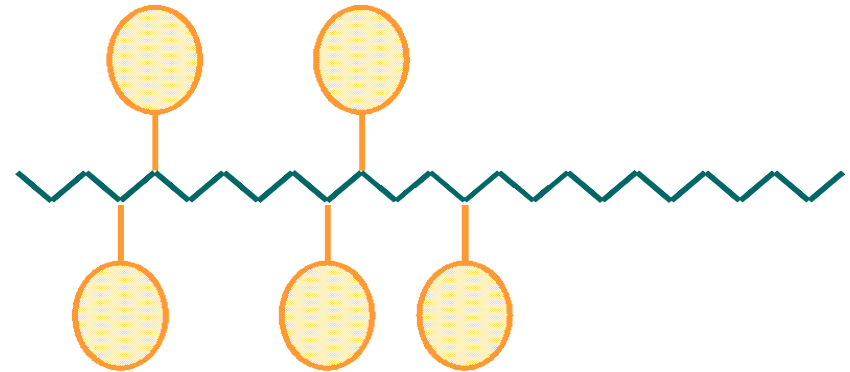
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Brookfield RVT 20 rpm room temperature

GUAR GUM	3500 cP
LOCUST BEAN GUM	3000 cP
TRAGACANTH	700 cP
CARRAGEENAN (lambda)	500 cP
ACACIA GUM	5 cP

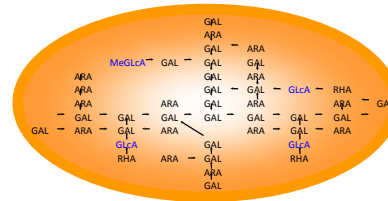
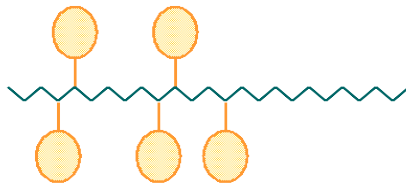


- ✓ Emulsifier
- ✓ Texturizer
- ✓ Binder
- ✓ Encapsulation agent
- ✓ Coating agent
- ✓ Agglomeration agent



- ❖ **Non hygroscopic**
- ❖ **High solubility at room temperature**
- ❖ **Stable to:**
 - wide pH range (2.5 – 8)
 - low & high temperatures (resists freezing and heating)
 - high shearing & most processing conditions
- ❖ **Compatibility with other ingredients**
- ❖ **Good acceptance: No taste / No flavor / No color**

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What **Fibregum™** can do for your clean label needs?

Beverages

Fruit juices

**Soups & Meal
replacers**

- ❖ Improves roundness and mouthfeel
- ❖ Enhances flavor release
- ❖ Improves stability and suspension

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Ice creams

**Frozen
Desserts**

- ❖ Replacement of synthetic emulsifiers
- ❖ Ice crystals reduction
- ❖ Freeze/thaw resistance
- ❖ Fat reduction

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Dairy

Cultured products

- ❖ Bacteria strain protection
- ❖ Shelf life extension (by improving the life of the bacteria culture)

Bakery

- ❖ Freeze-thaw stability
- ❖ Dough conditioning
- ❖ Improved shelf life
- ❖ Improved pliability in tortillas
- ❖ Crispiness and oil pick up reduction in tortilla chips
- ❖ Reduced breakage in crackers

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Bars

Snacks

Cereals

- ❖ Binder and emulsifier
- ❖ Improve machinability
- ❖ Texture stabilizer
- ❖ Breakage reduction & improved shape
- ❖ Enhances crispiness

Simple and natural ingredients: cereal, nuts, dried fruits, glucose syrup, acacia gum, vegetable fat, natural flavor.

Target; Maintain simple and natural label while:

- ❖ Reducing Sugar
- ❖ Eliminating lecithin
- ❖ Adding Fiber
- ❖ Improving shelf life
- ❖ Reducing stickiness

RESULTS:

- ✓ Improved nutritional profile
- ✓ Better technical and sensorial characteristics.
- ✓ Improved shelf life
- ✓ Clean and simple label maintained

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Fibregum™ soluble healthy fiber

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- ❖ More than **90% soluble dietary fiber** (AOAC, dry weight)
- ❖ Nutritional properties supported by more than **80 in vitro and in vivo clinical studies**
- ❖ **Gut regulator** . Improves healthy digestive balance. Enhances water & electrolyte absorption.
- ❖ **Reduces Glycemic Index**
- ❖ **Low caloric: 1.7 Kcal/g.**
Ingredient of choice in sugar & fat replacements.
- ❖ **Dental care benefits.** Fibregum™ is non-cariogenic and it has beneficial properties in oral care.



Clean Label Conference

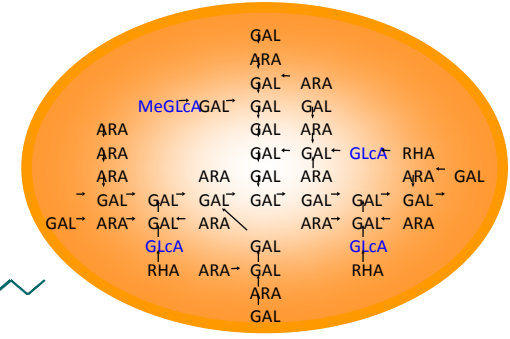
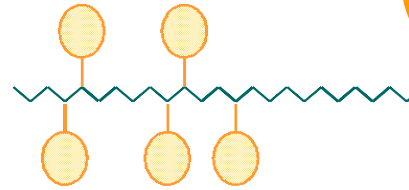
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Acacia gum has very high digestive tolerance

- ❖ Highly branched molecule
- ❖ Complete but slow fermentation pattern by intestinal microflora



- ✓ High degree of **gastro-intestinal tolerance** in human diets.
 - ✓ **Prebiotic** from 6 g/day.
 - ✓ Total colonic fermentation & production of **short chain fatty acids**.
- (Clinical study – Cherbut et al)



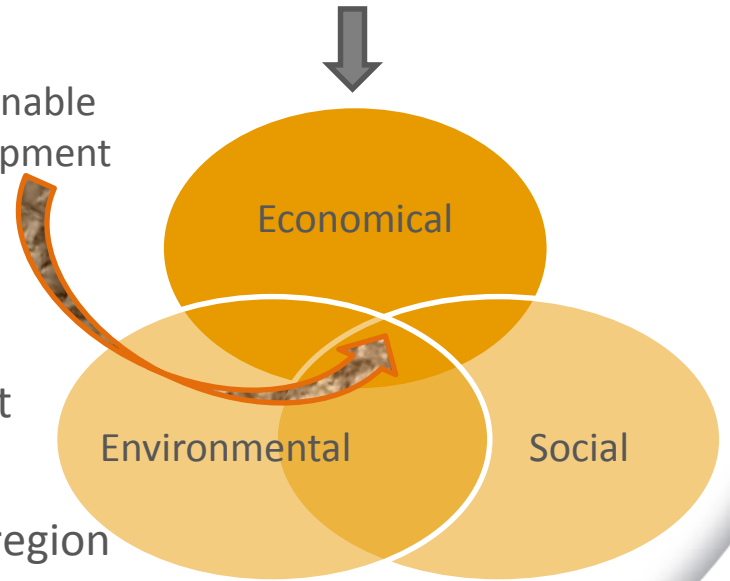
no side effect below 50g/day

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Acacia gum, a powerful tool for sustainable development in Africa

Sustainable development



- Helps the socio-economic development
- Provides stability and cash crop
- Protects the natural ecosystem in the region and prevents desertification

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