



ALLAND & *ROBERT*
Since 1884

**NEW COMERS
WEBINAR**



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June 2026

AGENDA

1. A&R COMPANY
2. ACACIA GUM SOURCING
3. WHAT IS ACACIA GUM?
4. APPLICATIONS
5. R&D and STRATEGY
6. WHAT IS KARAYA GUM?
7. COMPETITION
8. MARKETING & COLLABORATION

1. THE COMPANY

KEY FIGURES



1884

**Foundation
of the company**

6TH

**Generation
family company**

75

**Millions €
revenue 2025**

KEY FIGURES

142

Years
of **experience**
in natural gums

70

Countries
Alland & Robert
sells to

100%

Dedicated from
the very start
to **natural gums**



KEY FIGURES

3

Factories

5

Spray drying towers

130

Employees in 2025

32,000 t
+
2,500 t

Capacity of acacia gum 2025

1,000 t

Capacity of karaya gum

95%

Export



Manufactured in France & India

OUR MAIN NATURAL GUMS

Acacia Gum

Coming from **Acacia trees**

For food, pharmaceutical, cosmetic, technical applications



Karaya Gum

Coming from **Sterculia trees**

For pharmaceutical, food applications



FOOD SAFETY



BRC 9 H.A.C.C.P

To certify **quality** and **safety**, and **protect** the end consumer

PHARMACEUTICAL SAFETY



ANSM

Ensure that **Alland & Robert** can supply both **excipients** and **active ingredients** to pharmaceutical companies

QUALITY SYSTEM CERTIFICATIONS



ISO 9001

Ensure that **Alland & Robert** meet the needs of customers and other stakeholders while meeting statutory and regulatory requirements





SOCIAL AND SOCIETAL COMMITMENT



SMETA REFERENTIAL

4 PILLARS:
Labor standards
Health & safety
Environment
Business ethics



CHSWC



United Nations
Global Compact

OTHER CERTIFICATIONS



ORGANIC

KOSHER & HALAL

NON-GMO PROJECT

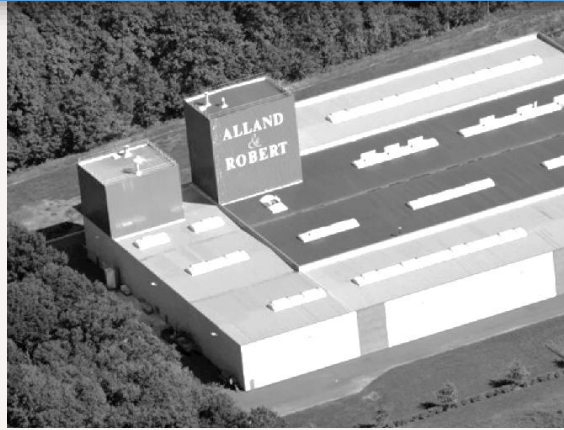
4 LOCATIONS

PARIS

Administrative
Sales
Management



SAINT AUBIN



PORT-MORT



AHMEDABAD



3. WHAT IS ACACIA GUM?

NEW PRODUCTION AREA



Production capacity :
+50% /year

32,000 t
+
2,500 t

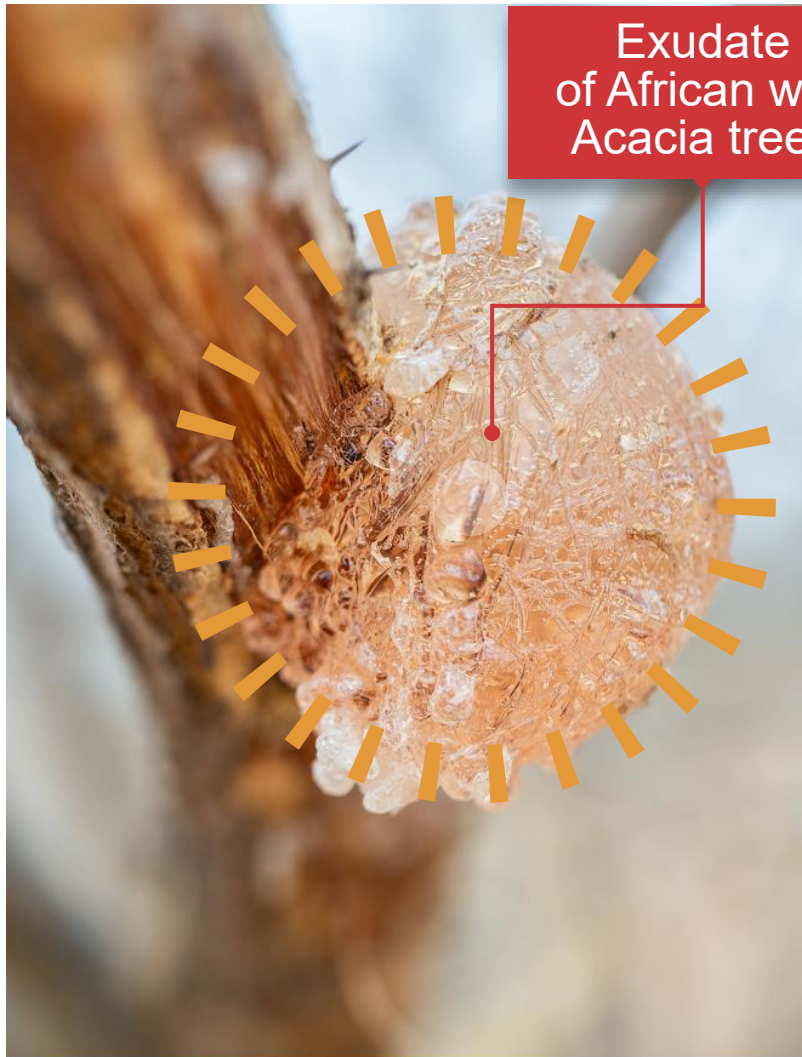
Capacity acacia gum
2025

SAINT AUBIN

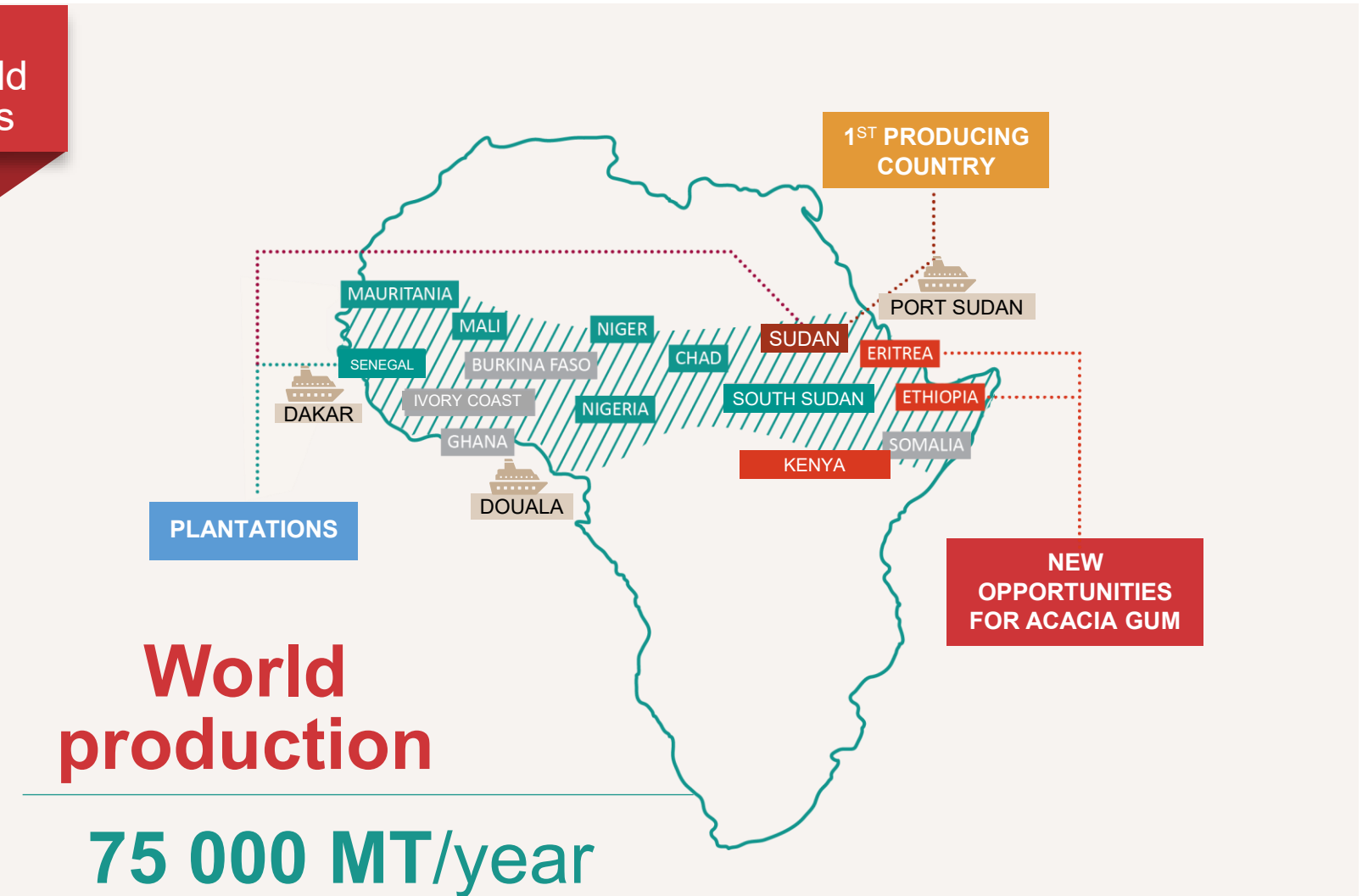


2 ■ SOURCING & CURRENT SITUATION

MAIN PRODUCING COUNTRIES



Exudate of African wild Acacia trees



PLANTATIONS

1ST PRODUCING COUNTRY

NEW OPPORTUNITIES FOR ACACIA GUM

World production
75 000 MT/year

SOURCED SUSTAINABLY DIRECTLY FROM NATURE !



 HAND MADE HARVEST IN THE GUM BELT

 PREVENT DESERTIFICATION

 USED BY MEN AS A FOOD RESOURCE FOR MILLENNIA

 PROVIDE REVENUES TO LOCAL POPULATIONS

 TREE FRIENDLY HARVEST

 LOW CARBON PROCESS IN THE WHOLE PRODUCTION CHAIN

ALLAND & ROBERT

ALLAND & ROBERT

WORKS WITH RAW MATERIAL SUPPLIERS



1



Working with suppliers to **improve harvesting** and selection of crude gum and **ensure safety of supplies**

2



Helping the development of the local acacia gum industry in Africa
Kibbling and sorting installations in Senegal, Chad and Mali

3



- Working with all stakeholders to **share information**
- **Technical assistance** to our providers
- Installation of warehouses in **Senegal, Chad and Mali**

4



- **Fair trade relations**
- **Transparent and honest** relationships
- Offering **Fair Price**

5



Yearly audits to our suppliers, including **safety, ethical, environmental and societal standards**

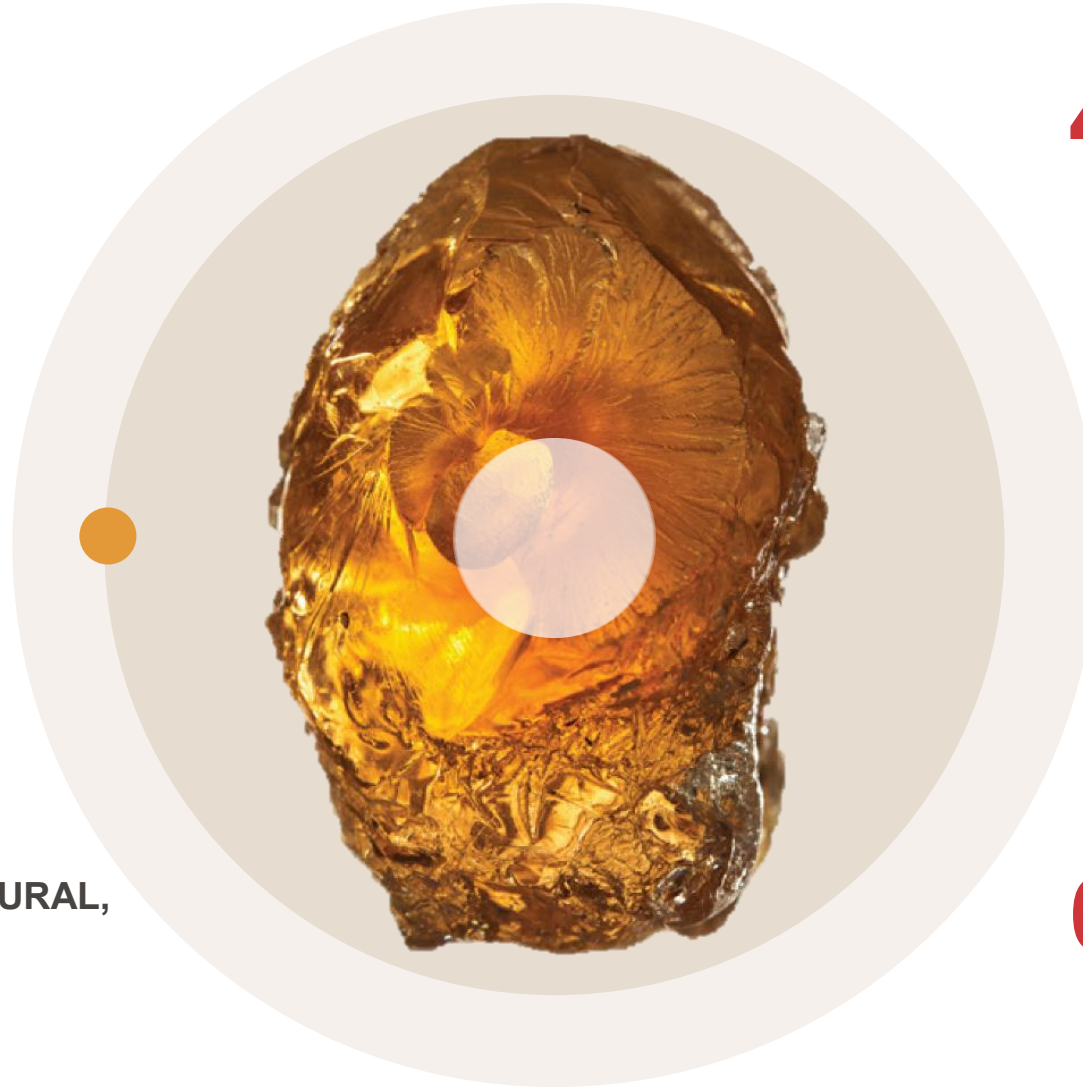
3. WHAT IS ACACIA GUM?

3. WHAT IS ACACIA GUM?

1. HIGH SAFETY
INGREDIENT
E414

2. MULTI-FUNCTIONAL
POLYSACCHARIDE
Rhamnose, Galactose,
Arabinose, Glucuronic
acids

3. VEGETAL, NATURAL,
GMO FREE



4. ODOURLESS, TASTELESS,
COLOURLESS

5. HIGHLY SOLUBLE
IN WATER

6. LOW CALORIFIC
VALUE

3. WHAT IS ACACIA GUM?

SENEGAL GUM

PROTEIN CONTENT

2%

LAEVOROTATORY OPTICAL
ROTATION

-20 to -35°

DIFFERENCES
IN FUNCTIONAL
PROPERTIES



SEYAL GUM

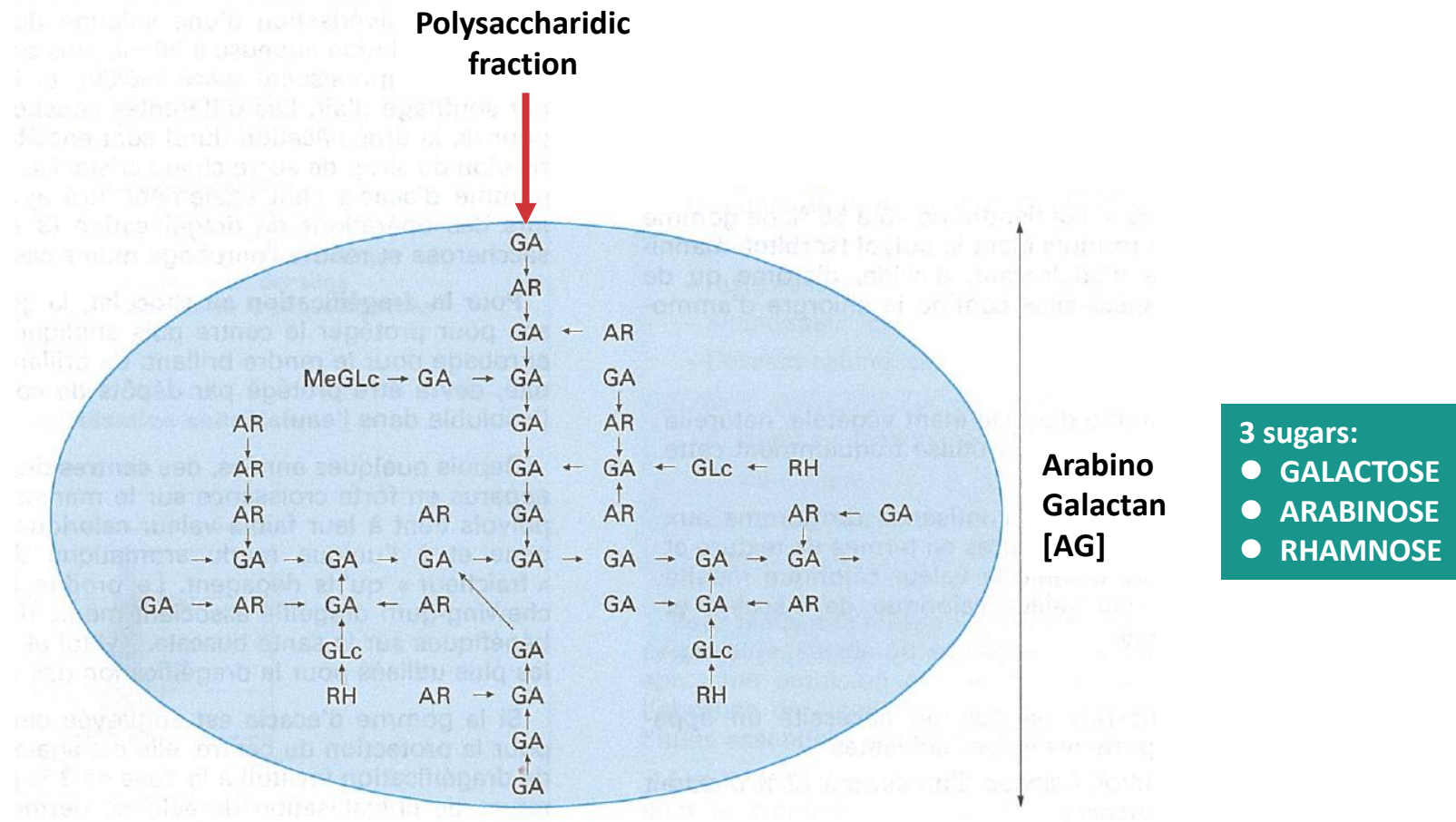
PROTEIN CONTENT

1%

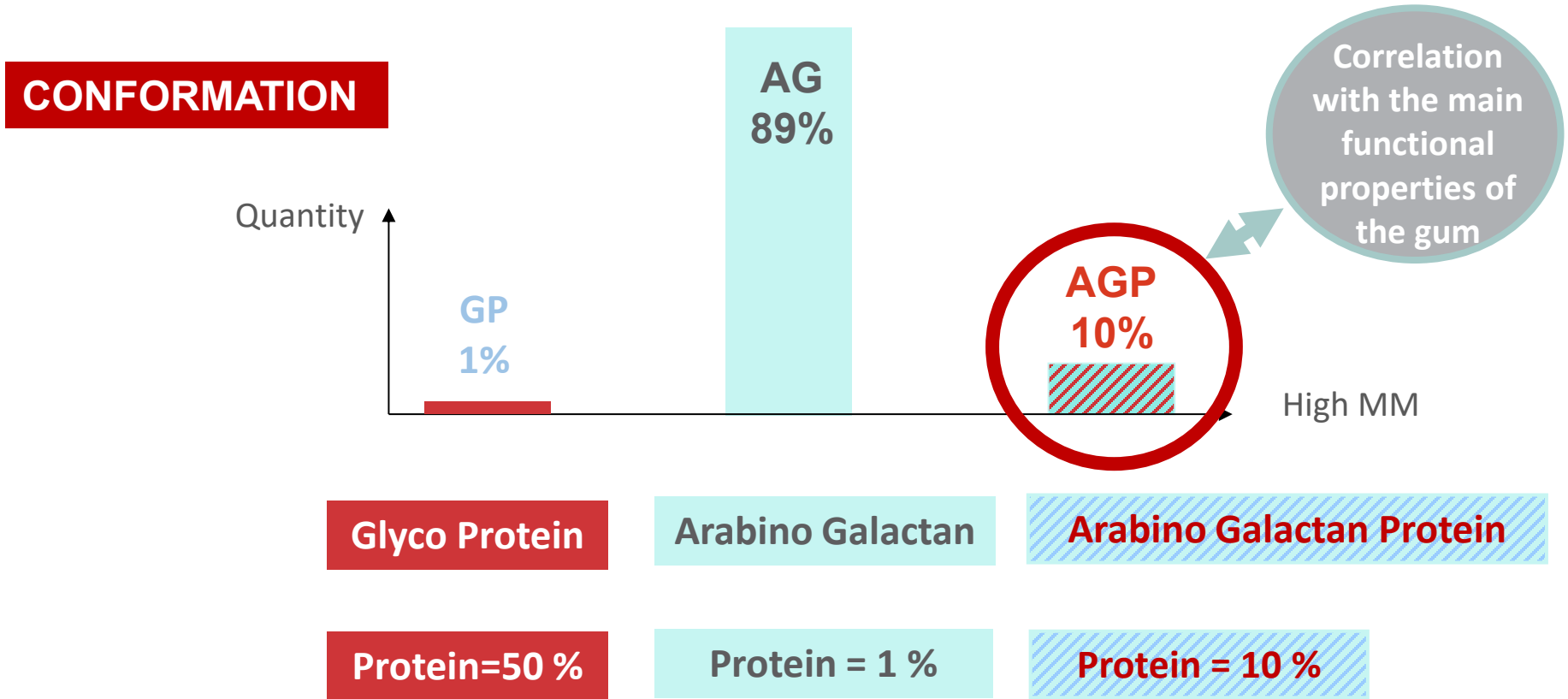
DEXTROROTATORY OPTICAL
ROTATION

+35 to +60°

THE CHEMICAL STRUCTURE OF ACACIA GUM



THE CHEMICAL STRUCTURE OF ACACIA GUM



Evaluation by SEC-MALLS → crude gums and final products

FUNCTIONAL PROPERTIES

OF ACACIA SENEGAL AND SEYAL



TEXTURING

Better textures and hardness



MOUTHFEEL IMPROVEMENT

Softening action and longer taste



NATURAL GLUE

Safe and organic food adhesive



EXTRUSION

Processing aid, gustatory sensation improver



EMULSION

Emulsifying properties and stabilization



FIBER ENRICHMENT

90% fiber content, highly soluble



COATING

Film forming abilities, perfect for gumming operations



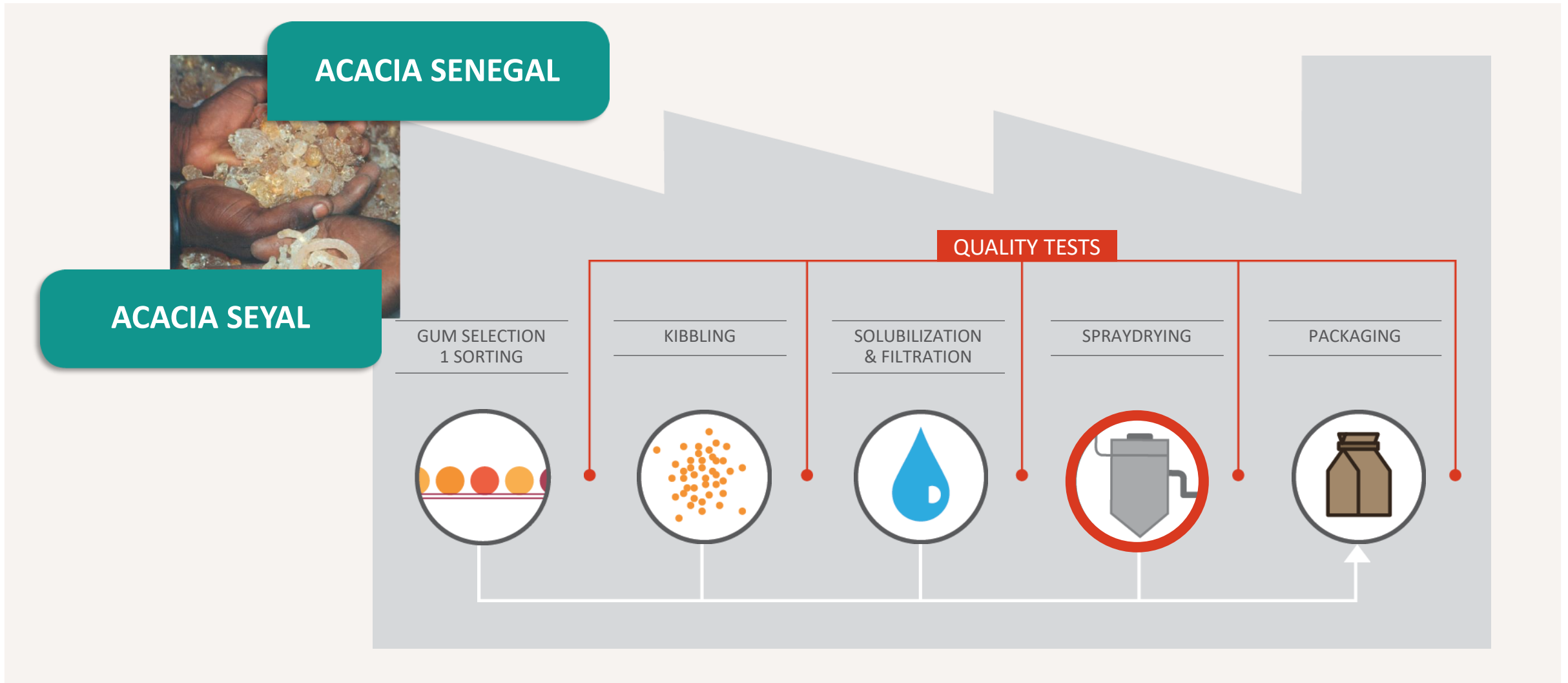
ENCAPSULATION

Flavor retention, protection and use as a carrier

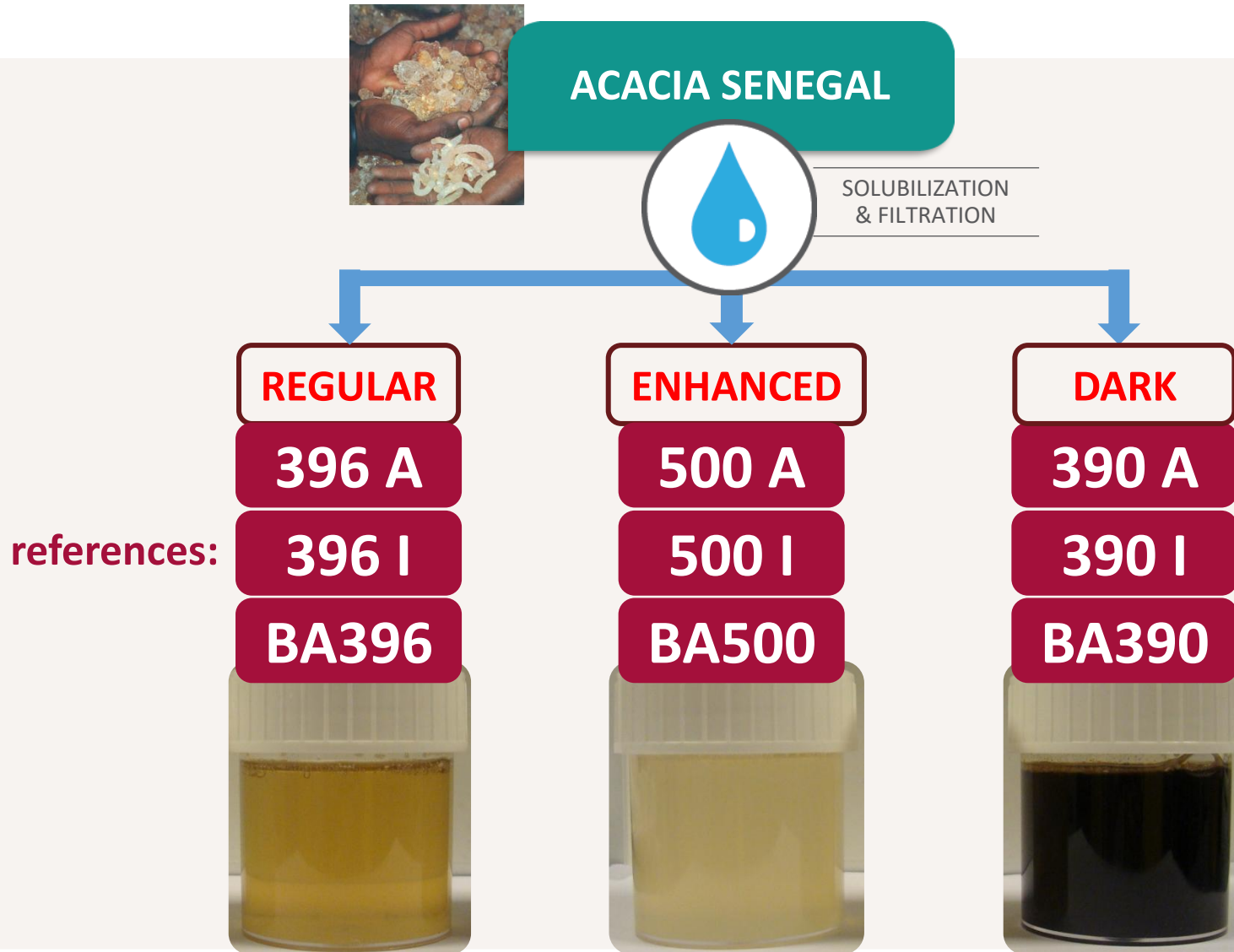
ACACIA GUM IS USED IN MANY INDUSTRIES



ACACIA GUM PROCESS

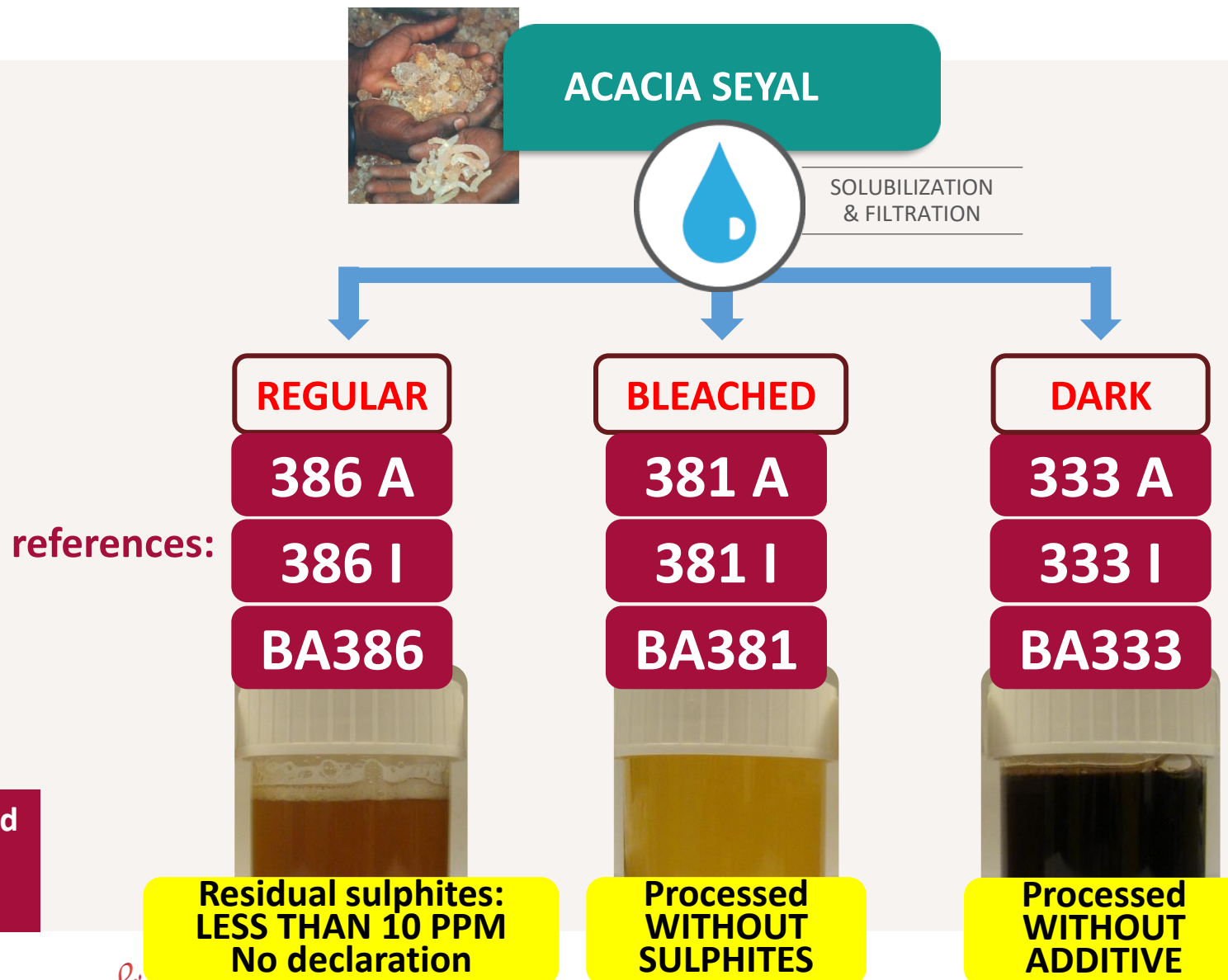


Before spray drying...



3. WHAT IS ACACIA GUM?

Before spray drying...



3. WHAT IS ACACIA GUM?

Before spray drying... organic grades



ACACIA SEYAL



SOLUBILIZATION & FILTRATION



ACACIA SENEGAL



SOLUBILIZATION & FILTRATION

REGULAR
386 A
386 I
BA386

**Residual sulphites
LESS THAN 10 PPM
No declaration**

ORGANIC NOP
381 A
381 I
BA381

**Processed
WITHOUT
SULPHITES**

ORGANIC
339 A
339 I
BA339

**Processed
WITHOUT
ADDITIVE**

ORGANIC
399 A
399 I
BA399

ACACIA FIBRE RANGE



ACACIA SENEGAL



SOLUBILIZATION & FILTRATION



REGULAR

AF396

BAF396



ORGANIC

AF399

BAF399



ACACIA SEYAL



SOLUBILIZATION & FILTRATION



SULFITED

AF386

BAF386



BLEACHED

AF381

BAF381



REGULAR

AF333

BAF333



ORGANIC

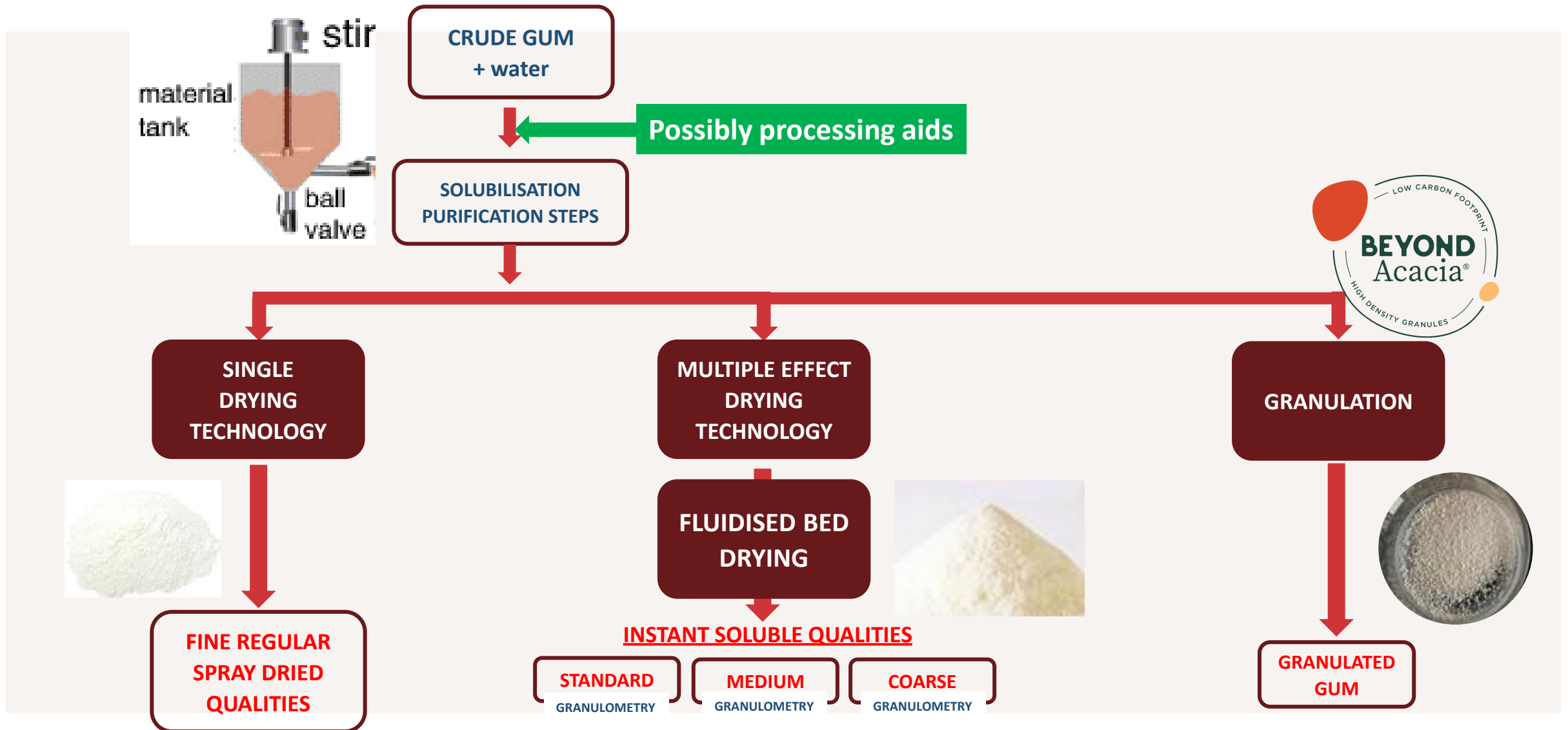
AF339

BAF339



3. WHAT IS ACACIA GUM?

Spray drying operation : no modification, just a perfect step keeping the integrity of the gum



A = regular spray dried

I = instant soluble

Beyond Acacia®

The only range of acacia gum with **low carbon footprint** and **high dispersion ability**.



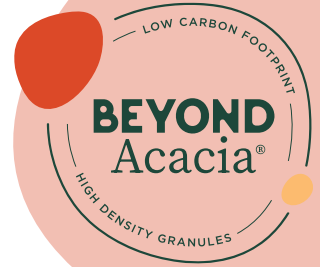
LOW CARBON

Environmental exemplarity with the lowest carbon footprint and a sustainable value chain.



HIGH DENSITY

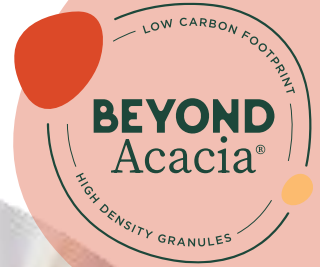
Technological excellence with the highest density and dispersion ability.



By using Beyond Acacia®, you can positively affect the planet and the environment while using a highly technological and expert product.

An innovative process

for optimized acacia gum



HIGH DENSITY GRANULES



IMPROVED SOLUBILIZATION even in cold manufacturing processes



EXCELLENT HYDRATION Properties



HIGH DISPERSION Ability



FOAMING REDUCTION during process

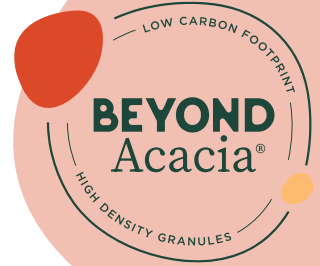


LESS DUSTS during pouring, excellent flowability & less lumps



Applications to avoid

for Beyond acacia gum



❖ POWDERED BLENDS

Major parts of other powders are actually finer

❖ MATRIXES WITH POOR WATER AVAILABILITY

Regular spray dried acacia gum recommended

❖ LIQUID PRODUCTS CONTAINING VERY LOW AMOUNT OF ACACIA GUM

Low stirring (ex : wine)

➔ **Conclusion : we recommend collecting as much information as possible about the finished product and even about the production processes when feasible.**

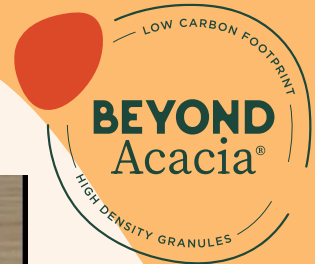
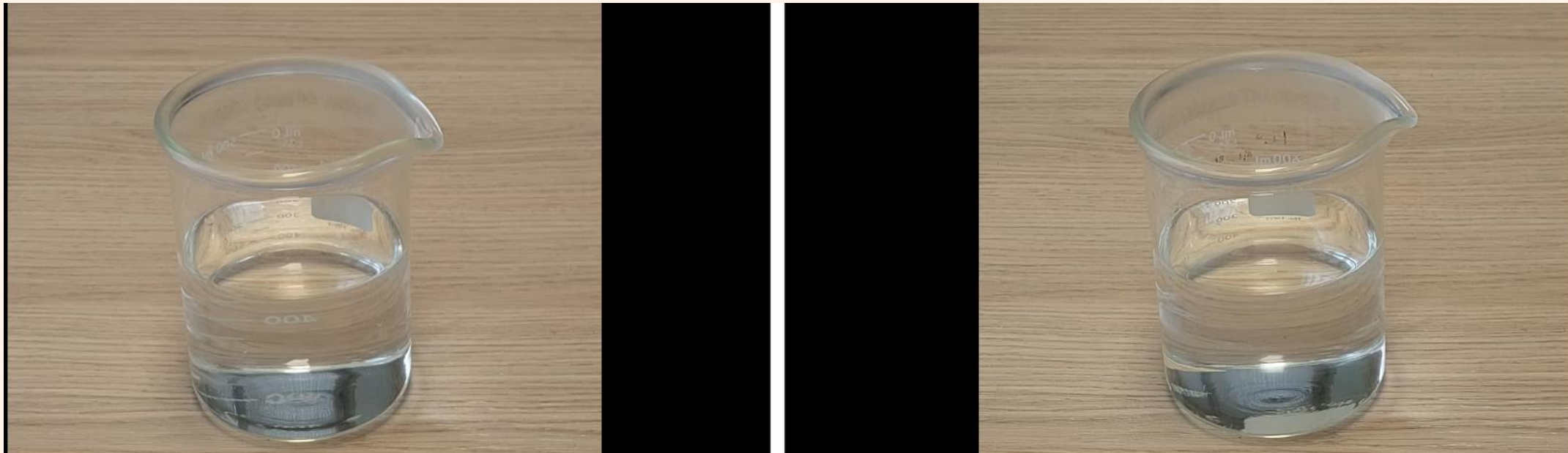


Advantages in use

Wettability of gum acacia
in static conditions

Granulated

Standard Instant



Excellent HYDRATION properties

Advantages in use

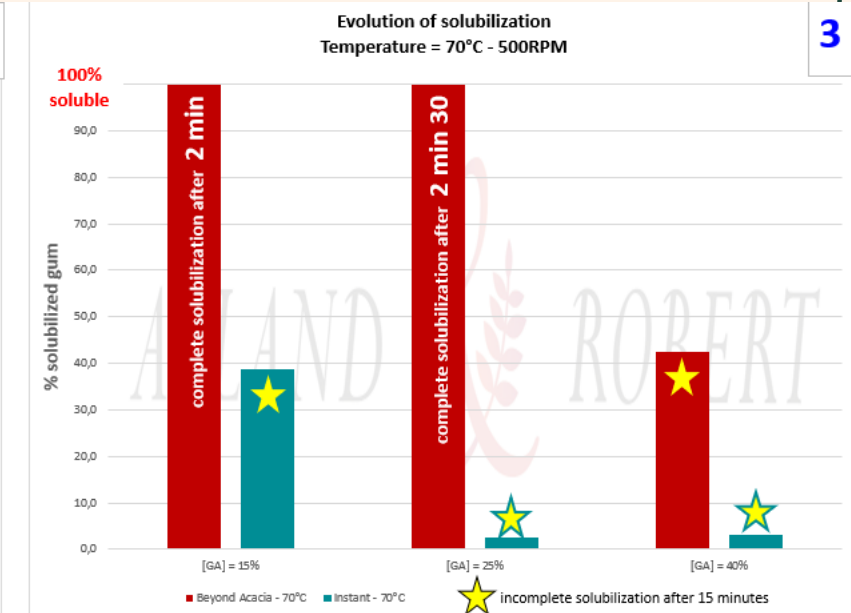
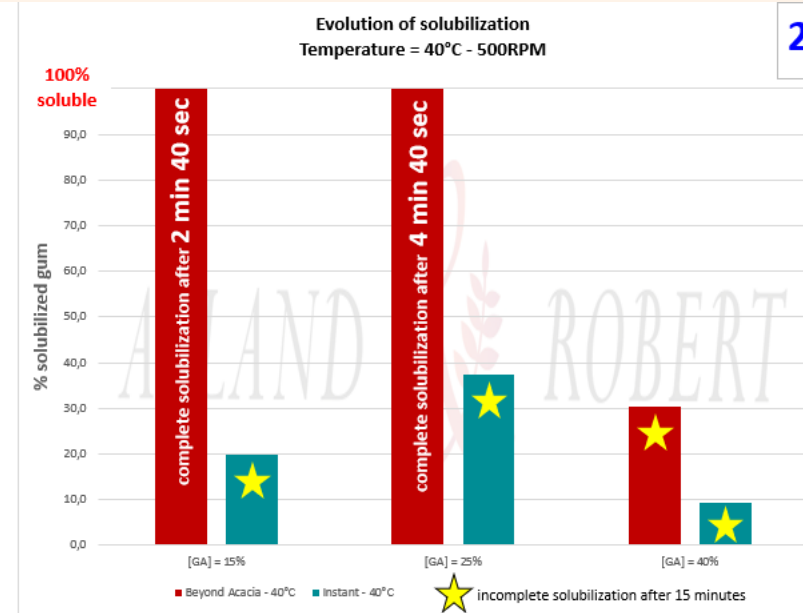
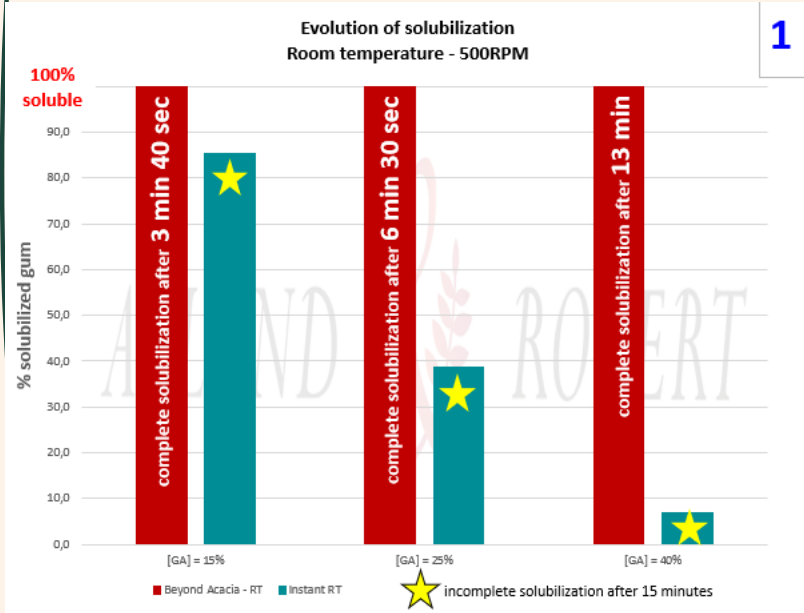
Granulated

Standard Instant



**Excellent dispersion and flowability
Less lumps, low energy, less foam**

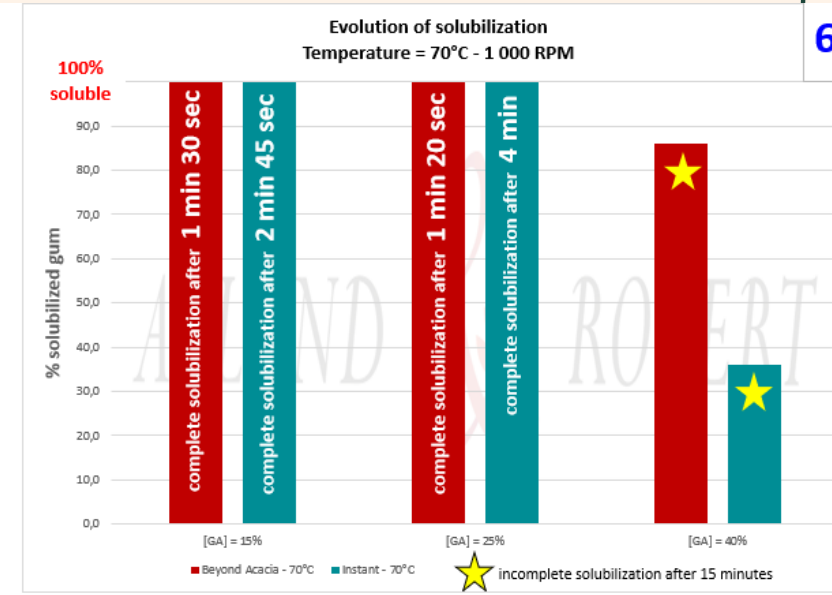
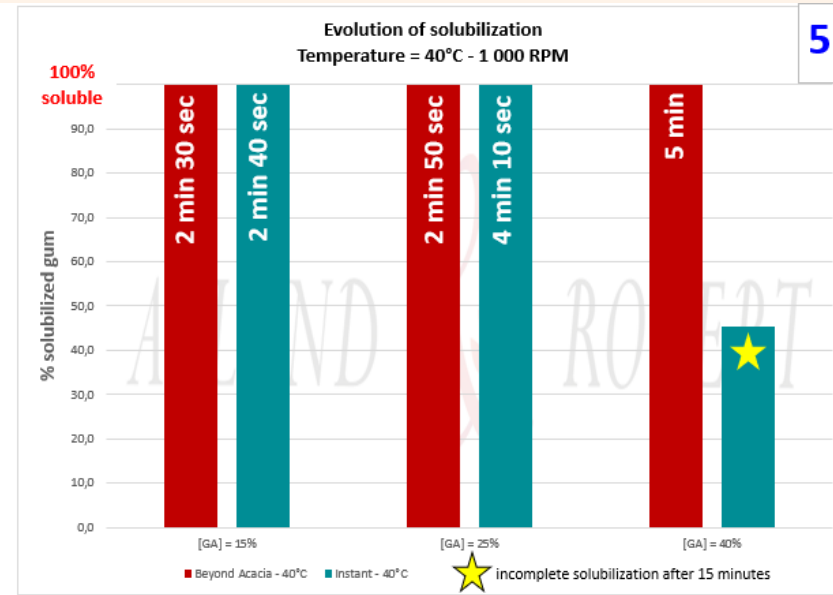
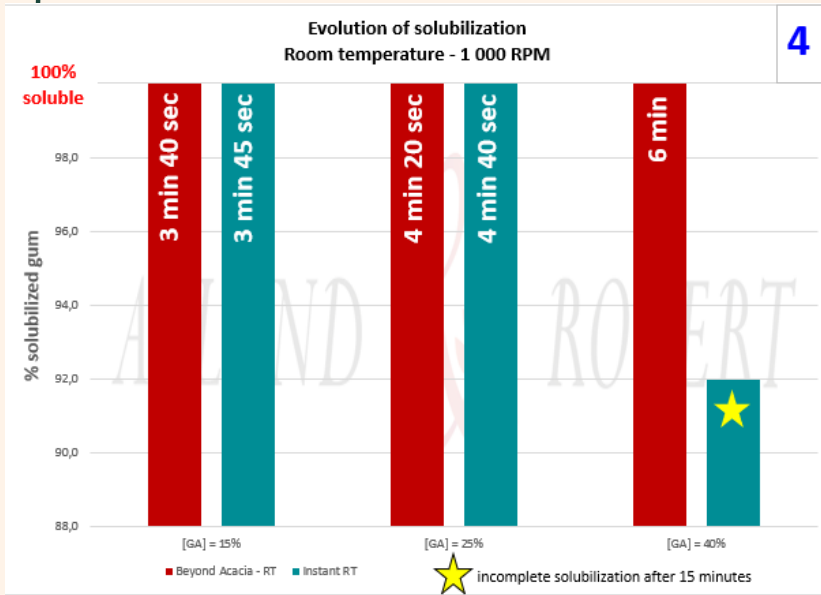
Beyond vs instant



Always solubilizes faster regardless of temperature or stirring speed

At concentrations below 30%, all Beyond 100% solubilized before 15 minutes under slow stirring when no instant is

Beyond vs instant



To achieve more than 35% gum solutions: favor a quite fast stirring (1000RPM) and a moderate warm temperature (40°C) = graph 5

The application of high temperatures (approx. 70°C) penalizes the solubilization rate at high concentration (>30%) = graph 6

EXPLANATORY SHEET – with 2 examples

IMPACT OF PARTICLE SIZE ON COLOR OF POWDERS

**SEYAL
381**



inferior
to
100µ

100µ
to
200µ

200µ
to
400µ

superior
to
400µ

- Same original powder with different granulometry after pulverization and sieving
- All aqueous solutions = 8°Lov

**SENEGAL
396**



- Same original powder with different granulometry after pulverization and sieving
- All aqueous solutions = 5°Lov

4. APPLICATIONS

R&D DRIVERS

FUNCTIONALITY

Versatile and multifunctional 100% natural gum to improve foods

NUTRITION

More and more used for fiber enrichment and sugar reduction

HEALTH

Many health benefits
Gut health

COSMETIC

Natural, vegetal & environmental friendly solutions

DemeCare®

FUNCTIONALITY

Versatile and
multifunctional
100% natural gum
to improve foods

FUNCTIONAL PROPERTIES

TENSIO ACTIVE PROPERTIES



Natural or chemically modified emulsifier?

NATURAL ACACIA GUM

Waterloving hydrophilic head

= sugar fraction

Oil loving hydrophobic tail

= protein fraction

TENSIOACTIVE PROPERTIES

FOR THE FORMULATION OF BIPHASE FOOD SYSTEMS

Oil-in-water



EMULSIFYING

Air-in-water



WHIPPING

Solid-in-water



SUSPENDING

TENSIOACTIVE PROPERTIES

FLAVORS & SOFT DRINKS

EMULSIONS - OILS

- **Reduces the surface tension** between the dispersed and the continuous phases
- **Maintains small oil droplets in suspension** with electrostatic and steric effects
- **Assures the stability of the system** for many years in both concentrated and diluted conditions (flavors, beverages)



RECIPE SHEET

Acacia gum SENEGAL	20%
Water	64.5%
Citric acid	0.5%
Preservatives	Qs
Oil phase	7.5%
Estergum 8BG (weighting agent)	7.5%

MANUFACTURING PARAMETERS



Mix the 2 parts with a high speed mixer and then with a high pressure homogenisor

ADDITIONAL INFORMATION

Wait for the complete hydration of the gum before emulsification
 2 stages minimum for the high pressure step (400 bars) and the last one at low pressure (50 bars) to smooth the emulsion and separate possible aggregates

TENSIOACTIVE PROPERTIES

ICE CREAMS

WHIPPED PRODUCTS

- **Mobilizes water** → improves the stabilization and final texture (smoother)
- **Syrup texture** to optimize the formulation of sugar free or sugar reduced products
- **Lowers the density** of the ice cream (→ more air incorporated)



RECIPE SHEET

Acacia gum SENEGAL	1- 4%
Milk	41%
Liquid cream	41%
Sucrose	14-17%
Flavors, colorings	qs
Other hydrocolloids	qs

MANUFACTURING PARAMETERS



Mix the ingredients with a paddle blender and make the ice cream with adapted equipment

ADDITIONAL INFORMATION

Pasteurize the mix

TENSIOACTIVE PROPERTIES

BEVERAGES

SUSPENSIONS

- **Favors the stabilization of solid compounds** and fat globules in aqueous systems
- **Improves mouthfeel**
- Formulation of vegetal based-beverages (milk substitutes)
- Formulation of juices containing pulps
- Fiber enrichment



TENSIOACTIVE PROPERTIES

ENCAPSULATION OF FLAVORS & POWDERED BEVERAGES

INSTANT POWDERS

- > **Assures the better encapsulation of oil droplets** (essential oils, oleoresins, vitamins, flavors, colorings...)
- > **Improves stability:** protects final powder from moisture and essential oils against release, loss of volatile compounds and oxidation
- > Most effective neutral binder



RECIPE SHEET

Acacia gum SEYAL	20 to 30%
Water	54.5 to 64.5%
Citric acid	0.5%
Oil phase	15%

MANUFACTURING PARAMETERS



Mix the 2 parts with a high shear mixer and then with a high pressure homogenizer

ADDITIONAL INFORMATION

- Wait for the complete hydration of the gum before emulsification
- 2 stages minimum for the high pressure step (400 bars) and the last one at low pressure (50 bars) to smooth the emulsion and separate possible aggregates



FILM FORMING PROPERTIES

COATING

WITH SUCROSE

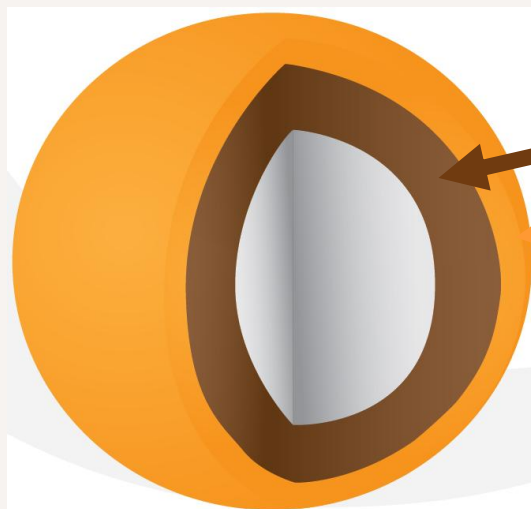
REGULAR COATING

Gumming operation of the centers:

- Smoothing of the surface
- Protection of the centers
- Prevention of the oil from migrating towards outside
- Better fixation of the coating blend

Stabilization and improvement of the hardness of the final product

Dusting of acacia gum + sucrose: facilitation of enlargement



RECIPE → GUMMING

Acacia gum SENEGAL	30%
Water	70%

RECIPE → SUCROSE COATING

Acacia gum SEYAL	20 – 25 %
Sucrose	75 – 80 %

MANUFACTURING PARAMETERS

Gumming performed with a pure acacia syrup



Coating realized with a combination of acacia gum (solution or powder) and sucrose to accelerate enlargement

ADDITIONAL INFORMATION

Number of sucrose loads	80-120
Total coating time	6 – 8 hours
Air drying temperature	100 – 140 °F

COATING

WITH CHOCOLATE AND SUCROSE

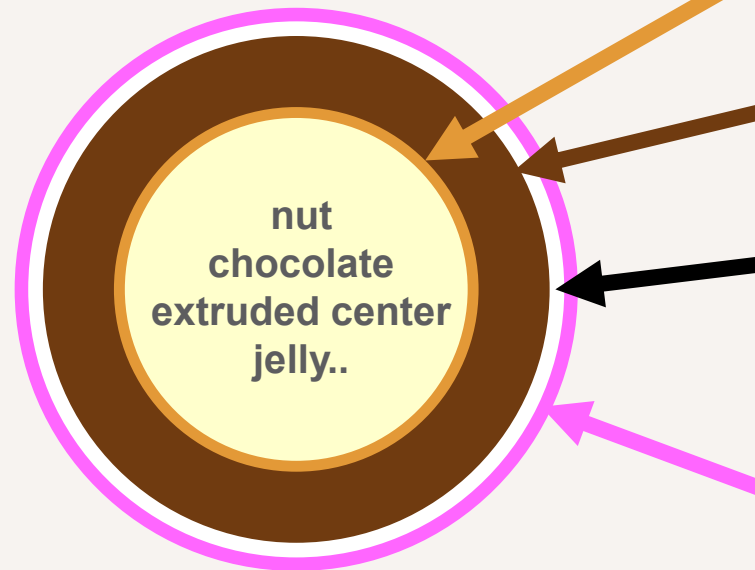
REGULAR COATING



MANUFACTURING STEPS

> **Gumming operation of the centers:**

- Smoothing of the surface
- Protection of the centers
- Prevention of exudation of centers towards outside
- Improvement of mechanical resistance of angular centers
- Better heat resistance of chocolate or heat sensitive centers



Gumming performed with a pure acacia syrup 

Coating with chocolate

White coating with sucrose for nice and consistent coloring operation

Coating with colourings and sucrose

ACACIA GUM : SENEGAL/SEYAL COMPARISON

FILM FORMING – COATING – TEXTURING -STICKING

- > Surfacing – suppress imperfections, creates a tight barrier against migrations
- > Improve mechanical resistance to shocks – improve resistance to heating (chocolate centers)
- > Makes chocolate or sugar adhesion on the centers easier

	Filmforming ability	Mechanical resistance	Heat resistance	Adhesive properties	Texturizing properties
SEYAL	++	+++	+++	++	+
SENEGAL	+++	+	++	+++	+++

TEXTURING PROPERTIES

HERBAL or FRUIT CANDY

- > Thickening agent **providing a unique texture** both firm and melting
- > Combination of acacia gum/ sucrose/glucose: **specific texture**
- > Increase fiber content
- > Nice flavour release
- > **Structure: Long**
Texture: Hard



Competitors
gelatine
pectins ...

RECIPE SHEET

Acacia gum SENEGAL	28 Kg
Sucrose	24 Kg
Glucose syrup 42DE	23 Kg
Water	23 Kg
Citric acid (50% sol.)	2 Kg
Flavors, colors	qs

MANUFACTURING PARAMETERS



- Flavors, colors and acids incorporated after cooking
- Deposit operation on starch trays
- Last coating with specific oil or fine sugar

ADDITIONAL INFORMATION

Dry matter after cooking	69° Bx
Time / ventilated room	40-60 hours
End moisture content	13 - 15%

TEXTURING PROPERTIES

SUGAR-FREE SOFT GUM

- > Thickening agent **providing a soft texture** combined to polyol(s) syrup
- > Sucrose replacement with acacia gum = **non cariogenic properties**
- > **Structure:** Long
Texture: Soft



Concurrent(s)
gélatine
pectines ...

RECIPE SHEET

Acacia gum SENEGAL	36.5 Kg
Sorbitol (70% DM)	48.5 Kg
Water	15 Kg
Flavors, colors	qs

MANUFACTURING PARAMETERS



- Flavors, colors and acids incorporated after cooking
- Deposit operation on starch trays
- Last coating with specific oil or fine sugar

ADDITIONAL INFORMATION

Dry matter after cooking	69° Bx
Time / ventilated room	40-60 hours
End moisture content	54 – 60°C

ADHESIVE PROPERTIES

ACACIA GUM IS A NATURAL GLUE



> A **natural glue** also used in inks, paints or paper industries

SNACKING

- To protect
- To stick salt, spices, flavors or aromatic herbs on centers
- Favours the stickiness of cereals and final stability
- To replace salt, sugar or eggs

TECHNICAL

A natural glue used in inks, paints or paper industries

TECHNO FUNCTIONAL PROPERTIES

EXTRUSION

> **Thermoplastic**
and **lubricating** properties

PET FOOD

Favors the
cohesiveness of the
mix

Improves palatability,
appetence

INSTANT NOODLES

Improves the texture
of the noodles after
rehydration



TECHNO FUNCTIONAL PROPERTIES

OENOLOGY / WINES

- **Efficient** at very low level
- **Just before bottling**

STABILIZATION

Acacia Senegal stabilizes the coloring matters thanks to reactions with polyphenols

MOUTHFEEL

Acacia SEYAL reduces aggressiveness and astringency of tanins



IMPROVING PROPERTIES

BAKERY

- **Efficient at low level**
- **Combined with nutritional fiber allegation**

WATER RETENTION

Acacia **SENEGAL** and **SEYAL** allow a **better retention of water** in breads leading to a **softer texture**

IMPACT ON SHELF LIFE

Shelf life of breads is **significantly increased**



IMPROVING PROPERTIES

SAUCES

- **Emulsification**
- Improve stability

COLD SAUCES

Fat reduction
Improvement of stability
Reduction of syneresis

HOT SAUCES

Stability to heating steps
(protection against
denaturation of proteins
leading to grainy or curdled
sauce)



5. ■ DEVELOPMENT & STRATEGY

MASTERY AND CONSISTENCY

THE RIGHT GUM FOR THE RIGHT APPLICATION

- **Raw materials and final products high level standards**
- Dedicated parameters according to customers**
- Selection of raw materials**
- Flexible operating processing conditions**
- Technical support for customers**
- Academic support for R&D and customers**

R&D DRIVERS

FUNCTIONALITY

Versatile and multifunctional 100% natural gum to improve foods

NUTRITION

More and more used for fiber enrichment and sugar reduction

HEALTH

Many health benefits
Gut health

COSMETIC

Natural, vegetal & environmental friendly solutions

DemeCare[®]

NUTRITION

More and more
used for fiber
enrichment and
sugar reduction

ACACIA GUM: A VERSATILE INGREDIENT

ACACIA GUM: FROM FORMULATION TO NUTRITION

ADVANTAGES OF ACACIA GUM vs CURRENT TRENDS

- Easy to use (high solubility), stable to all process conditions (pH, temp)
- No taste, no color, low viscosity
- Low calorie
- Sugar free
- Substitutes the bulk of sugar
- Versatility and vegetal origin: useful tool for the formulation of animal-free foods for vegan/vegetarian diets
- A soluble fiber with prebiotic effects and high digestive tolerance
- Label-friendly: ingredient status used as a fiber



FOCUS ON SUGAR REDUCTION

HELP FORMULATION WITH a natural and vegetal polysaccharide THANKS TO ITS RHEOLOGICAL PROFILE

ADVANTAGES OF ACACIA GUM: volume, texture, mouthfeel with low glycemic index

- **Soft drinks and beverages (sugar-reduced or sugar free):** impact on stability and mouthfeel
- **Dairies / vegetable substitutes:** loss of texture/creaminess compensated by acacia gum
- **Masking effect / some aftertastes** generated by sweeteners (taste buds?) – can reduce aggressivity/bitterness
- **Effective bulking agent** for the formulation of sugar-reduced food or formulated with sweeteners
- **Healthy - not digested – slow fermentation**



FOCUS ON REVEGETATION OF DIET

GELATIN FREE GUM DROPS
MARSHMALLOWS



GELATIN FREE



Born from Alland & Robert expertise and Research & Development unit, Syndeo[®] Gelling is a blend of 3 plant-based hydrocolloids including acacia gum: for an efficient combination of their functional properties that will mimic gelatin in candies, jellies, desserts, mousses and more.

SYNDEO[®] GELLING,
A PLANT-BASED
GELLING AGENT
for ultimate textures



SYNDEO® GELLING,
A PLANT-BASED
GELLING AGENT
for ultimate textures

HUNDREDS OF LAB TESTS
IN ORDER TO REACH THE
RIGHT TEXTURES



GUMMIES



MARSHMALLOWS



MOUSSES

- Asset : one technician specialized in gummies and candies (trained at German ZDS school)
- Tools: instrumental (texturometer) and sensorial tests
- Sensory analysis / trained internal panel
- Industrial validation done for gummies (not yet for marshmallows)

THE FORMULATION

- Blend of :

Acacia gum – E414

Carrageenans – E407

Agar – E406

- Hydrocolloids commonly used in food

- Part C - Group I of REGULATION (EC) No 1333/2008 on food additives

- Carrageenan controversy : not degraded in Syndeo G



SYNDEO® GELLING, A PLANT-BASED GELLING AGENT for ultimate textures

FOR THE FORMULATION OF VEGAN GUMMIES IN USUAL INDUSTRIAL CONDITIONS



Vegan jellified candies

Ingredients (in % weight)

Water	38.4
Sucrose	19.2
Glucose syrup 40 DE	11.5
Glucose syrup 60 DE	26.9
SYNDEO® GELLING	3.1
Citric acid (E330)	0.6
Sodium citrate (E331)	0.4

Instructions

- 1/ Mix water, glucose syrups and sodium citrate for 2 minutes at 80°C;
- 2/ Add sucrose and the SYNDEO® GELLING under stirring: blend 8 minutes at 120°C;
- 3/ Add and mix citric acid just before starch deposit step;
- 4/ Deposit in starch trays and dry jellies for 72 to 96 hours at 32°C.



SYNDEO® GELLING, A PLANT-BASED GELLING AGENT for ultimate textures

FOR THE FORMULATION OF VEGAN MARSHMALLOWS



Vegan marshmallows

Ingredients (in % weight)

BLEND 1

Water	18.5
Sucrose	18.5
Glucose syrup 40 DE	11.9
Glucose syrup 60 DE	27.9
SYNDEO® GELLING	2.9
Sodium citrate (E331)	0.4

BLEND 2

Water	9.2
Sucrose	9.4
Potato proteins	1.2

Instructions

- 1/ Blend 1:** mix all the ingredients with a powerful heating mixer (speed 7) for 5 minutes at 120°C;
- 2/ Blend 2:** mix all the ingredients with a powerful heating mixer (speed 7) for 5 minutes at 70°C;
- 3/** Mix the 2 blends with the mixer with a lower speed (3) for 2 minutes;
- 4/** Deposit in starch trays and dry marshmallows at least 24 hours at 32°C.



SYNDEO® GELLING, A PLANT-BASED GELLING AGENT for ultimate textures

FOR THE FORMULATION OF VEGAN MOUSSES



Vegan mousses

Thanks to Syndeo® Gelling, replicating the mouthfeel and texture of a regular mousse as a delicious vegan mousse is possible. Whether chocolate or fruit mousse, Syndeo® Gelling provides consumers with a creamy but not fatty mouthfeel and great sensory experience, including the softness, light and airy texture.

Vegan mousses

Ingredients (in % weight)

BLEND 1	
Water	20
Vegetal protein	2.5
Icing sugar	2.5
BLEND 2	
Mango puree	37
Coconut milk	37
Sodium citrate (E331)	0.13
SYNDEO® GELLING	0.87

Instructions

Blend 1:

- 1/ Mix water and vegetal protein for 2 min at speed 5; Whisk for 2 min at speed 8; Add icing sugar and mix for 30 sec at speed 5; Whisk for 2 min at speed 8;

Blend 2:

- 2/ Mix all the ingredient together for 1 min at speed 3; Heat 90°C for 3 min at speed 3;
- 3/ Mix slowly together with a spatula until getting an homogeneous mousse;
- 4/ Pour into small glasses and refrigerate for at least 4 hours.

SYNDEO® GELLING,
A PLANT-BASED
GELLING AGENT
for ultimate textures

GENERAL CONSIDERATIONS

Highlights

Syndeo® G dosing compared to gelatin :
2 to 3 times less
depending on the final product

- Necessitates salts (Na+) to be functionalized
- Easy to dissolve (needs minimal temperature)
- May withstands high temperature and acidic conditions compared to gelatin much more sensitive
- The Bloom notion in reference to the setting strength of gelatin is not applicable to Syndeo® G.



SYNDEO® GELLING,
A PLANT-BASED
GELLING AGENT
for ultimate textures

GENERAL CONSIDERATIONS

Next steps



- Chewy candies whipped with gelatin
- Dairies : yoghurts
- Chilled desserts included plant-based trends :
pannacottas, creams (spoonable or creamy)



SYNDEO® GELLING,
A PLANT-BASED
GELLING AGENT
for ultimate textures

GENERAL CONSIDERATIONS
Conclusion

- Mastery of new hydrocolloids in our lab
- Look forward to receiving feedback from you and potential customers (about gummies)
- A&R technical support to develop new formulas with our Syndeo® Gelling



FIBER ENRICHMENT

ACACIA GUM
IS A SOLUBLE FIBER.



Alland & Robert guarantees
a minimum fiber content of 90%
*(measures according to the international method
AOAC 985-29)* for all the Acacia Gums
of ACACIA FIBRE range

Fiber enrichment with Acacia Gum
can allow nutritional allegations
according to the dosage (« source of »/
« enriched or high in fibers ») and
**according to the regulation of every
country.**

ACACIA FIBRE = a high soluble dietary fiber

- **FUNCTIONALIZING** : no devaluation of the matrix - many improvements thanks to gum properties
- **CLEAN LABEL** : Acacia Fiber
- **NUTRITION** :
 - ➔ Helps formulation of trendy foods (animal-free substitutes, sugar reduction)
 - ➔ Fiber claims / impact on Nutri-Score



FIBER ENRICHMENT

substitutes
formulation

NUTRITION



ACACIA GUM IS A SOLUBLE FIBER*

ALLAND & ROBERT GUARANTEES

A minimum fiber content of 90%

(Measures according to the international method AOAC 985-29) for all **Acacia Fiber range.**

Fiber enrichment with acacia gum can allow nutritional allegations according to the dosage (« source of » / « enriched in fibers ») and the regulation of every country.

AS A FIBER, ACACIA GUM OFFERS SEVERAL ADVANTAGES

Resistance to acidity and heat	Low calorific value	Very low glycemic index
No side effect, discomfort or stomach issues	PH compatible with milk proteins	Scientifically recognized prebiotic effects
Neutral taste with very low viscosity	Positive effect on rheology	Non cancerogenic effect

NEW !!! ACACIA FIBER STATUS RECOGNIZED BY US FDA SINCE 17th Dec 2021

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according to the regulation of every
country.

ACACIA FIBRE STATUS → REFER TO LOCAL REGULATION

Example of **EUROPE**
(Regulation (EU) No 1047/2012):

→ Nutrition claims applicable

- **SOURCE OF FIBRE** : at least 3 g of fibre per 100 g or at least 1,5 g of fibre per 100 kcal
- **HIGH FIBRE** : at least 6 g of fibre per 100 g or at least 3 g of fibre per 100 kcal

R&D DRIVERS

FUNCTIONALITY

Versatile and multifunctional 100% natural gum to improve foods

NUTRITION

More and more used for fiber enrichment and sugar reduction

HEALTH

Many health benefits
Gut health

COSMETIC

Natural, vegetal & environmental friendly solutions

DemeCare[®]

HEALTH

Many health benefits
Gut health

ACACIA FIBRE – Health benefits

EXTENSIVELY DESCRIBED IN LITERATURE

Prebiotic effects : promotes the growth of beneficial gut bacteria improving microbiota

Blood glucose management / insulin response

Beneficial effects on chronic renal failures

Positive effect on IBS (Irritable Bowel Syndrome)

Improves intestinal conditions (pH, SCFA production) and functions

Improve gut impermeability

Weight management (satiety)



ACACIA FIBRE – Gut health

ALLAND & ROBERT STUDY



ACACIA GUM IS:

- ✓ Natural
- ✓ Vegetal
- ✓ Clean Label
- ✓ A soluble fiber
- ✓ A prebiotic
- ✓ Sustainable



LABELLING:

- ✓ Acacia Gum / Gum Acacia
- ✓ Acacia Fiber
- ✓ Gum Arabic
- ✓ E414

Please check local legislation for labelling options.



Get consumer insight and sensory marketing on Acacia Gum



Describe the benefits of Acacia Gum in digestive health



Explore the impact of a daily intake of Acacia Gum on the daily life of consumers



Support the use of Acacia Gum as a gut health improver

ACACIA GUM : functionality, sugar reduction, nutritional claims and digestive health

- 100% veggie and natural
- Sustainable and positively perceived
- Already used all over the world in many foodstuffs
- Very easy to incorporate and neutral
- No chemically modified
- Affordable – competitive
- Efficient to improve and formulate sugar reduced foods (texture, stability, taste ...)
- Suitable for many diets : vegan, keto, nutrition, organic, healthy → technical and health benefits
- Allows nutritional allegations (fiber enrichment)



R&D DRIVERS

FUNCTIONALITY

Versatile and multifunctional 100% natural gum to improve foods

NUTRITION

More and more used for fiber enrichment and sugar reduction

HEALTH

Many health benefits
Gut health

COSMETIC

Natural, vegetal & environmental friendly solutions

DemeCare[®]

COSMETIC

**Natural, vegetal &
environmental
friendly solutions**

DemeCare[®]

APPLIED RESEARCH IN COSMETICS

Natural and organic gums...

... are considered natural and safe by formulators.

... provide **stability** and **texture** to cosmetics, thanks to their viscosity, and functional properties on rheology and texture.

... can be used as **emulsifiers** in lotions or serums (for specific formulations).



TOOLS FOR APPLIED RESEARCH IN COSMETICS

Sensory and texture analyses

ANALYSE SENSORIELLE / SENSORY ANALYSIS

Objet de l'étude: **20.00.0000**

Date de réalisation: **04/04/2012**

Labo: **0000**

Crème 21, Crème 22, Crème 23, Crème 24, Crème 25

Phase 1: Appréhension / Perception

Crème 21, Crème 22, Crème 23, Crème 24, Crème 25

Phase 2: "Feel" / Consistance / Adhérence / Absorption / Elasticité

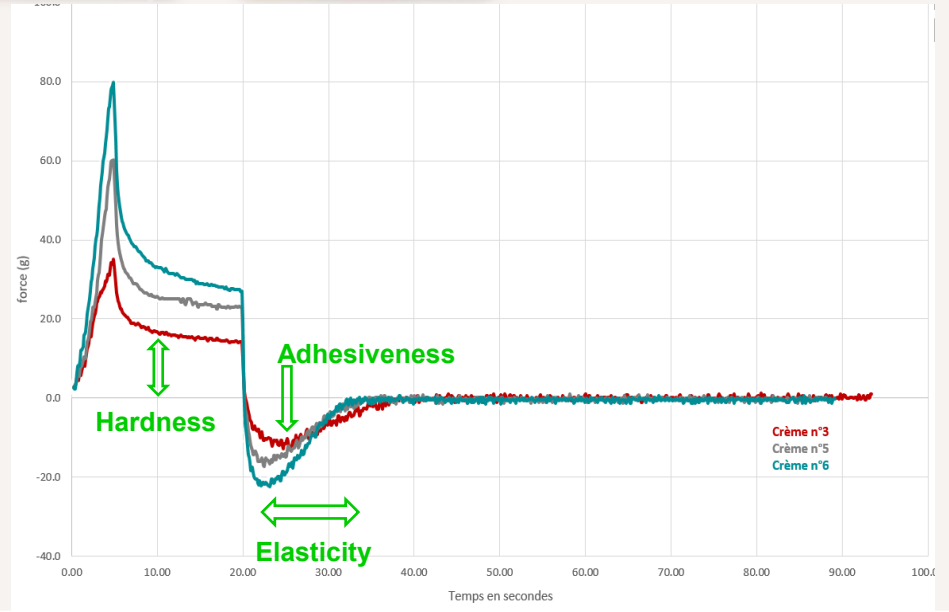
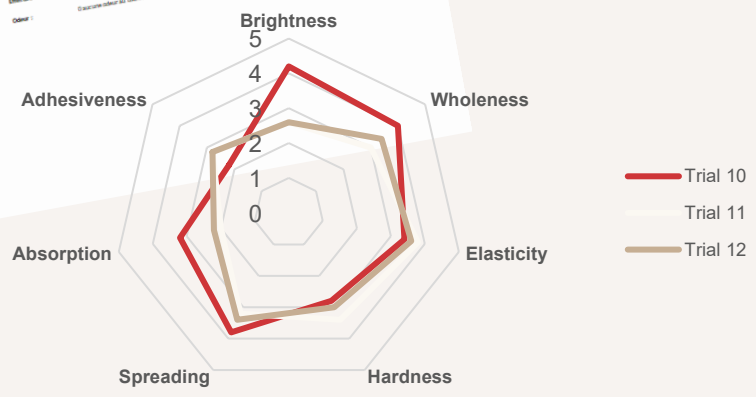
Crème 21, Crème 22, Crème 23, Crème 24, Crème 25

Phase 3: Aspect visuel / Couleur

Crème 21, Crème 22, Crème 23, Crème 24, Crème 25

Phase 4: Aspect olfactif / Odeur

Crème 21, Crème 22, Crème 23, Crème 24, Crème 25



NEW RANGE OF NATURAL GUMS



WHAT ARE NATURAL GUMS? INTRODUCING ACACIA AND KARAYA GUMS

ACACIA GUM



Acacia gum is an exudation of the acacia tree obtained by cutting the trunk or branches. There are 2 varieties of acacia gum: senegal and seyal, which have different functional properties.

- Biodegradable
- Vegetal
- 100% natural
- Organic
- Sustainable
- Texturing agent
- Film-forming agent
- Emulsifier

INCI : ACACIA SENEGAL GUM and ACACIA SEYAL GUM
Acacia gum has received the maximum rating according to the ISO 16128 Standard (which defines the ingredients of natural and/or organic cosmetics).

- Easily dissolved in hot or cold liquid
- Solubilisation up to a 40% concentration
- Fluid texture, Newtonian behaviour
- Stable over a wide pH range (4 to 10)
- Resistant to temperature variations
- Newtonian fluid

KARAYA GUM



Karaya gum is a natural exudation obtained by cutting the trunk or branches of the Sterculia tree.

- Biodegradable
- Vegetal
- 100% natural
- Organic
- Sustainable
- Texturing agent
- Film-forming agent
- Emulsifier

INCI : STERCULIA URENS GUM
Karaya gum has received the maximum rating according to the ISO 16128 Standard (which defines the ingredients of natural and/or organic cosmetics).

- Strong water absorption capacity
- Gelling agent - thick to fluid texture
- Hot or cold dispersion (facilitated in the presence of glycerine or ethanol)
- Stable over a wide pH range (4 to 10)
- Clear thinning gels
- Good resistance to temperature variations
- Newtonian fluid

TO EACH COSMETIC, ITS OWN GUM

THE DemeCare® RANGE	Texturing	Thickening effect	Adhesion agent	Binding agent	Emulsion stabiliser	Thickening agent	Film-forming agent	Slip effect	Stain	Moisturising effect
Acacia senegal I	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia senegal S	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia senegal IO	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia senegal SO	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia seyal I	✓	✓	✓	✓	✓	✓	✓			✓
Acacia seyal S	✓	✓	✓	✓	✓	✓	✓			✓
Acacia seyal IO	✓	✓	✓	✓	✓	✓	✓			✓
Acacia seyal SO	✓	✓	✓	✓	✓	✓	✓			✓
Sterculia Gum	✓				✓	✓	✓		✓	
Sterculia Gum O	✓				✓	✓	✓		✓	
Blend Acacia senegal I / Sterculia Gum	✓				✓	✓	✓		✓	
Blend acacia senegal IO / Sterculia gum O	✓				✓	✓	✓		✓	

I: Instant soluble S: Spray-dried O: Organic

All products are available in 25kg bags. Other packaging is available on request.

ALLAND & ROBERT'S DEMECARE® RANGE: COMPLETE AND DIVERSIFIED
The DemeCare® range developed by Alland & Robert consists of twelve products made from two natural gums: karaya gum and acacia gum, which itself can come from two different varieties: Acacia senegal gum, which is the most used in cosmetics, and Acacia seyal gum. The name of the range was chosen for its readability and ease of pronunciation internationally. The first part of DemeCare® comes from Demeter, the name of the Greek Goddess of the Earth, and underlines the range's natural aspect. In fact, natural gums are tree exudates: products that come directly from the land, which have not been chemically modified either by Alland & Robert or at any time during the manufacturing process. The 'care' suffix conveys the notion of caring, attentiveness and trust in others.



6. WHAT IS KARAYA GUM?

6. WHAT IS KARAYA GUM?

1. HIGH SAFETY
INGREDIENT
E416

2. HIGH VISCOSITY
At low concentration

3. VEGETAL, NATURAL,
GMO FREE



4. SYNERGY WITH OTHER
HYDROCOLLOIDS

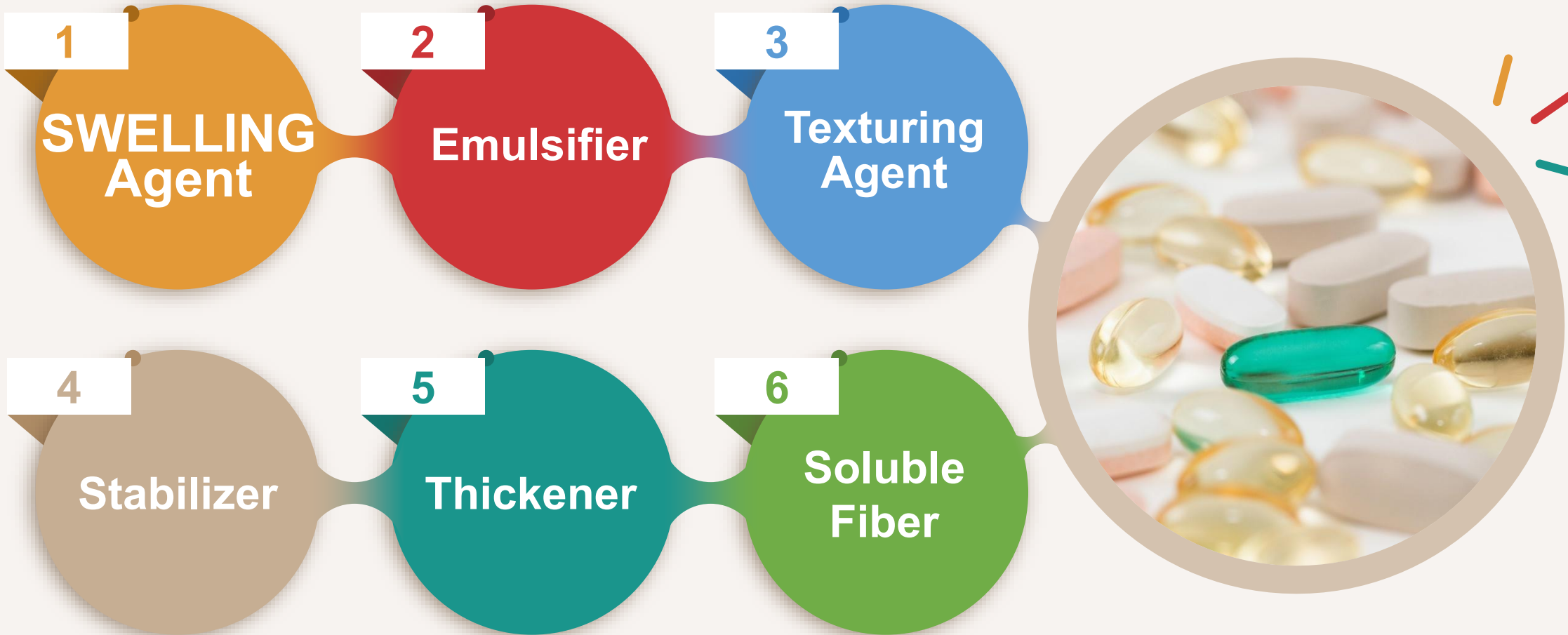
5. MUCILAGE
IN WATER

6. LOW CALORIFIC
VALUE

Coming from Sterculia trees



FOR PHARMA & COSMETICS



FOR FOOD & DIETARY PRODUCTS



No Acceptable Daily Intake specified
(FAO / WHO JECFA, 1988)

When formulating with **KARAYA GUM**, please check your country legislation and GFSA online Codex Alimentarius:



7 . COMPETITION

ACACIA GUMS FROM COMPETITION

> NEXIRA

- > Instantgum and Spraygum → regular
- > Eficacia and Superstab → enhanced qualities
- > Fibregum L or B → acacia fibres
- > Inavea → new denomination

> INGREDION - TIC GUMS

- > Prehydrated and Pretested gum acacia
- > Ticamulsion → chemically modified gum acacia E423
- > Ticapan → modified starch
- > Ticaloid → specialities

> AGRIGUM

- > AgriSpray and AgriRapid

ACACIA GUMS FROM COMPETITION

- > **NOREVO**
 - > Quickgum

- > **DRYTECH**
 - > Aragum

- > **WILLY BENECKE**
 - > 4 figures : 4764 – 4699 ...

- > **KERRY**
 - > TH031
 - > Emul Plus
 - > Emulgold

8 ■ MARKETING & COLLABORATION

NEWSLETTERS

All our news are sent through newsletters made for our distributors' network. Make sure you are subscribed!

DISTRIBUTOR'S AREA

A dedicated access for our distributors with the possibility to download:

- marketing supports (recipes, technical sheets, brochures, old newsletters, etc)
- quality documents (certificates)

If you don't have an account, please contact us!

SOCIAL MEDIA



Alland&Robert

**All questions related to marketing, communications & collaboration:
Violaine & Juliette
marketing@allandetrobert.fr**

SRS FORMS

Has to be filled for every sample request

Will allow Alland & Robert to better process your request and gives us important information to provide you with the best suited sample.

Please give us as much information on the type of sample you need (color, powder caliber, etc...), but give us only verified information.

We expect FEEDBACK on the samples.

Sample boxes can be discussed if necessary

Always submit samples in **unopened original Alland & Robert containers & labels** in order to avoid any contamination

General Information			
Date		Country	
District		Customs	
Author		Location	
Sample Request			
No. of Sample	Quantity (kg / Unit)	AMI Code	Description
Application / Industry		Project Description	
Final Product			
Gum Potential (kg p.a.)		Target Price E&W / kg	
Gum Requirements			
Color			
Transparency			
Viscosity			
Microbiology			
Additional Comments			



ALLAND & ROBERT CONCLUSION : WHAT WE STAND FOR



A **strong expertise** on acacia gum thanks to a **dedicated R&D team**, research programs and exclusive partnerships with globally recognized universities.



Production and laboratory that reach the **highest quality standards** through international certifications.



A commitment to develop the quality of products through **sustainable development, social investment** and **environmental awareness**.



Solid partnerships with **our African suppliers** and local investment in developing communities related to gum acacia.

Commercial :

Holger, Helen and Nawal
(h.kirchner@allandetrobert.fr
h.ravets @allandetrobert.fr
n.elkahlaoui@allandetrobert.fr)



Technical Support / R&D:

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Marketing and collaboration :

Violaine & Juliette
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