

ALLAND  ROBERT

FORMULATION BOOKLET

DemeCare®

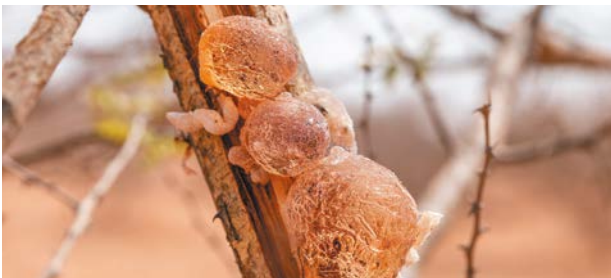
LEARN MORE ON
DEMECARE®



#PRODUCT BENEFITS

TO EACH COSMETIC, ITS OWN GUM

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

STERCULIA GUM

Sterculia 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



THE DemeCare® RANGE	Texturing	Tightening effect	Adhesion agent	Binding agent	Emulsion stabiliser	"Suspensoid" agent	Film-forming agent	"Silky effect"	Shine	Moisturising effect
Acacia senegal I	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia senegal S	✓	✓	✓	✓	✓	✓	✓		✓	✓
Acacia seyal I	✓	✓	✓	✓	✓	✓	✓			✓
Acacia seyal light I	✓	✓	✓	✓	✓	✓	✓			✓
Acacia seyal S	✓	✓	✓	✓	✓	✓	✓			
Acacia seyal light S	✓	✓	✓	✓	✓	✓	✓			
Sterculia Gum	✓			✓	✓	✓		✓		
Blends Acacia senegal / Sterculia gums	✓				✓	✓		✓		

Several blends of Acacia and Sterculia gums are available. More information upon request.
I: Instant soluble S: Spray-dried : The products are available organic certified

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

FORMULATION SUMMARY

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BODY CARE MILK

with DemeCare® Blend Cream

Step	Ingredients	%
A	Aqua	69.0
	DemeCare® Blend-Cream	5.0
	Propanediol	4.0
B	Prunus Armeniaca Kernel oil	6.0
	Macadamia ternifolia seed oil	6.0
	Butyrospermum Parkii Butter	3.0
	Hydrogenated vegetable oil	2.0
	Stearic acid	2.0
C	Benzyl alcohol, Dehydroacetic acid, aqua	1.0
	Tocopherol	0.2
	Fragrance	1.0
	Coloring	0.5
D	pH ajustor	Qsp pH



PROCEDURE

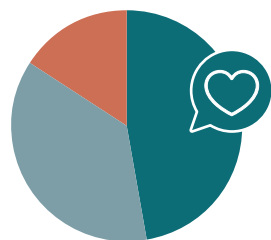
- 1/ Premix DemeCare® Blend-Cream with propanediol and add water. Heat this phase **A** to 75°C.
- 2/ Combine phase B ingredients and heat to 75°C.
- 3/ Add Phase **B** to Phase A, mix well.
- 4/ Mix with the Ultra-Turrax for 3 minutes at 20 000 RPM.
- 5/ Cool batch at 40°C. Add phase **C** ingredients, mix until uniform.
- 6/ Adjust the pH between 5 to 6.5.

DemeCare® Blend Cream plays the role of both a texturizer and a surfactant. Only the surfactant properties of acacia gum coupled with sterculia gum provide texture and stabilize the system.

SENSORY TESTS

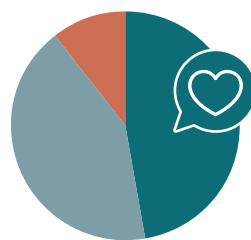
Multifunctional, natural, vegetal, eco-friendly, Blend Cream presents excellent viscosifying, emulsifying and film forming properties while keeping 100% bright effect without any drawback on the color of the final cosmetic formula. Blend Cream provides an alternative to polyacrylate gels and vegetable hydrocolloids such as xanthan which is already widely used to replace carbomers.

Texture assessment



Very pleasant Pleasant
Not very pleasant Not at all pleasant

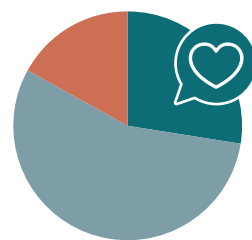
Application assessment



Very easy Easy
Not very easy Not at all easy

The sensory test panel highlighted good spreading, rapid penetration and a pleasant sensation.

Assessment of the effect after drying



Very pleasant Pleasant
Not very pleasant Not at all pleasant

The sensory test panel highlighted the smoothness and sensation of increased hydration of the skin.

MOISTURIZING CREAM

with DemeCare® Blend Cream

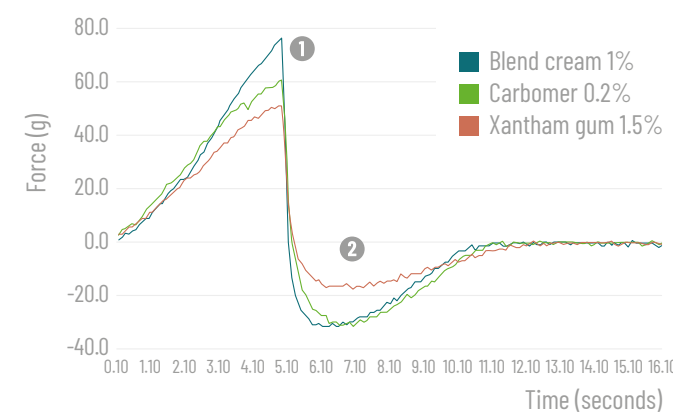
Ingredients	%
Water	78.0
DemeCare® Blend Cream	1.0
Macadamia Seed Oil	5.0
Apricot kernel Oil	5.0
Shea butter	2.0
Glyceryl stearate	3.0
Sugar Ester emulsifier	5.0
Preservative	Some drops



TEXTURE PROFILE AND SENSORY ANALYSIS

Blend Cream has been validated by **Principal Component Analysis (PCA)**. This analysis evidenced that Blend Cream was the better substitute to carbomers, based on 6 parameters: consistency, firmness, stickiness, spreading, glutiness, Lab color.

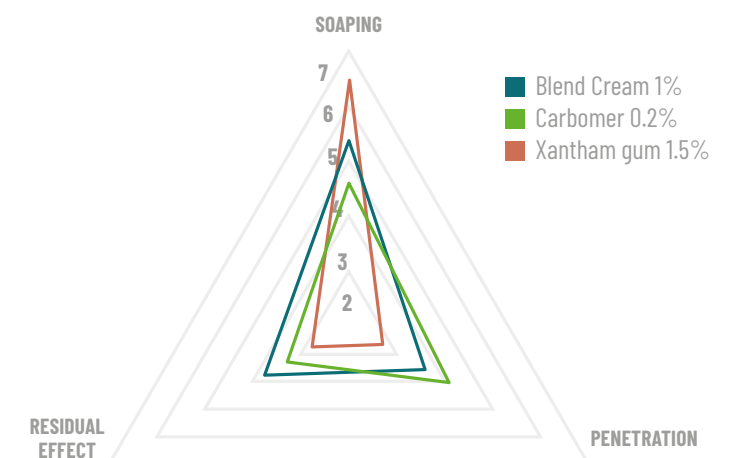
Texture profile



① represents the texture of the cream: a formulation with Blend Cream is firmer than that obtained with xanthan or carbomers.

② represents the cohesion and (positive) adhesiveness of the cream. Formulation based on xanthan is not consistent and does not remain on the skin. Carbomer and Blend Cream have similar results for this parameter.

Sensory analysis



Blend Cream makes it possible to formulate skincare with excellent penetration without soaping, and a rich and creamy texture with no sticky or glutinous effect.

The use of Blend Cream results in a texture that leave a pleasant and soft residual effect on the skin, a texture similar to that obtained using carbomers.

#FORMULATION

SHOWER GEL

with DemeCare® Blend Gel

Step	Ingredients	%
A	Aqua	63.0
	DemeCare® Blend-Gel	3.0
	Glycerin	3.0
B	Sodium Cocoyl Glutamate	20.0
	Lauryl glucoside	6.0
	Decyl glucoside	4.0
C	Conservator	0.6
	Fragrance	0.4
	Coloring	0.2
	pH adjustor	Qsp 5.0 to 6.5

**PROCEDURE**

- 1/ Premix DemeCare® Blend-Gel with glycerin and add water.
- 2/ Combine phase B ingredients.
- 3/ Add Phase **B** to Phase **A**, mix slowly.
- 4/ Add Phase **C** ingredients and mix until uniform.
- 5/ Adjust the pH between 5 to 6.5.

**BENEFITS**

DemeCare® Blend Gel is a combination of Sterculia gum and Acacia gum. This association combines the texturing properties of the Sterculia gum and the stabilizing properties of the Acacia gum.

It offers good compatibility with the main families of surfactants:

- ✓ Glutamate
- ✓ Sarcosinate
- ✓ Alkyl polyglucosides (decyl, lauryl, coco glucoside)

Multifunctional, natural, vegetal, eco-friendly, Blend Gel presents excellent viscosifying, emulsifying and film forming properties while keeping 100% bright effect without any drawback on the color of the final cosmetic formula.



#FORMULATION

EXFOLIATING GEL

with DemeCare® Blend Gel

Ingredients	%
Aqua	83.6
Glycerin	2.0
DemeCare® Blend-Gel	3.0
CireNat Sphères® - Rice Bran	4.0
Fragrance	2.4
Glitter	1.0
Coloring	0,4
Preservative	20 drops
pH ajustor	Qsp pH 5.5 to 6.0

BENEFITS

Blend Gel is a blend of acacia and sterculia gums that generates outstanding textures in cosmetics and care products.

The blend is a combination of sterculia gum and acacia gum. This association combines the texturing properties of the sterculia gum and the stabilizing properties of the acacia gum while bringing a silky touch.

Multifunctional, natural, vegetal, eco-friendly, Blend Gel presents excellent viscosifying, emulsifying and film forming properties while keeping 100% bright effect without any drawback on the color of the final cosmetic formula.



NATURAL LIP BALM

with DemeCare® Acacia senegal gum
or Acacia seyal gum

INGREDIENTS	1% Acacia senegal or seyal gum
Shea butter	25.0
Almond oil	44.5
Cera alba	27.0
DemeCare® Acacia Gum – 40%w/w solution	2.5
Active ingredients / Preservatives / Pigments	1.0



BENEFITS

Acacia gum has properties essential to the formulations of natural care products such as skincare, cleansing gels and make-up. Considered by formulators as natural, completely harmless and healthy ingredients, it provides viscosity, rheological and texturing properties, while bringing stability and texture to formulas.

In this case, Acacia gum improves the touch, pick-up and final appearance of the balm.

INCI : ACACIA SENEGAL GUM and ACACIA SEYAL GUM

Acacia gum has received the maximum rating according to the ISO 16128 Standard.



GLOSS

with DemeCare® Acacia senegal gum

FORMULATION	Sample control in %	Introduction of Acacia senegal gum in %
Hydrogenated castor oil dimer dilinoleate	71.8	70.0
Simmondsia chinensis seed oil	19.4	19.4
Coloring	8.0	7.8
DemeCare® Acacia senegal gum, 40% w/w solution	0.0	2.0
Fragrance	0.8	0.8

BENEFITS

Acacia gum has properties essential to the formulations of natural care products. Considered by formulators as natural, completely harmless and healthy ingredients, it provides viscosity, rheological and texturing properties, while bringing stability and texture to formulas.

In this gloss formula, the addition of DemeCare® Acacia senegal provides product homogeneity, improves adhesiveness on the skin et reduces the migration of gloss towards the fine lines. surrounding the lips



INCI : ACACIA SENEGAL GUM

Acacia senegal gum has received the maximum rating according to the ISO 16128 Standard.



NATURAL BATH BOMBS

with DemeCare® Acacia seyal gum

FORMULATION	Sample control in %	+ 2% Acacia Gum in %
Sodium bicarbonate	47.0	46.1
Citric acid	24.5	24.1
Sodium lauryl sulfoacetate	24.6	24.1
Aqua	2.1	2.1
DemeCare® Acacia seyal gum	0.0	2.0
Perfume	1.2	1.1
Coloring	0.6	0.5

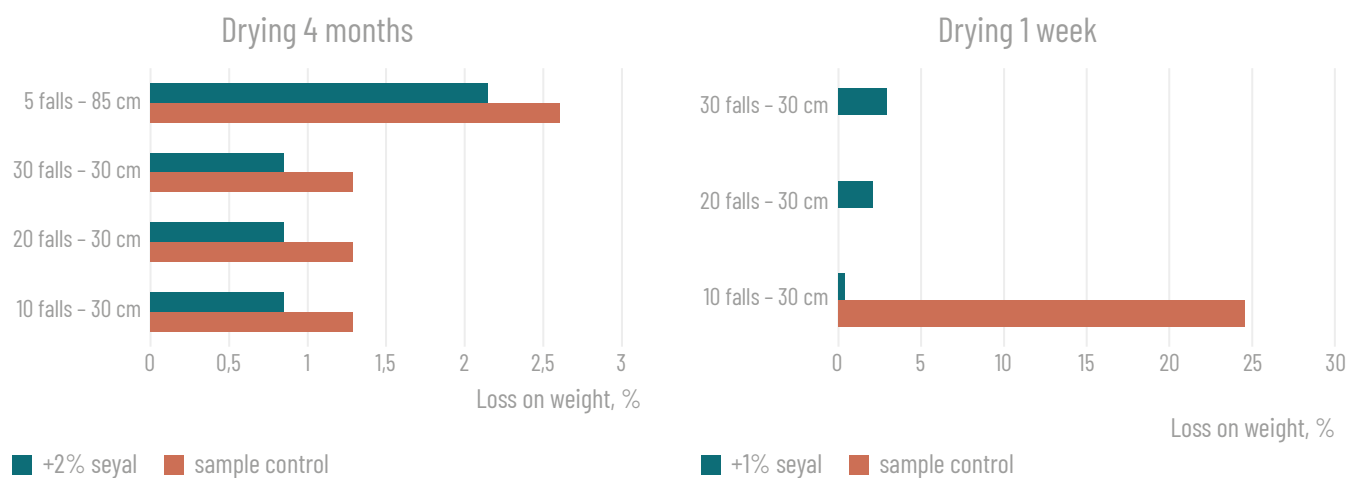


PROCEDURE

- 1/ Mix all ingredients.
- 2/ Mold the assembly.



BATH BOMB - FALLING TESTS



Acacia seyal gum improves the final aspect and provides cohesion.

Acacia seyal gum is effective at low dosage (1%).

INCI : ACACIA SEYAL GUM

Acacia seyal gum has received the maximum rating according to the ISO 16128 Standard.

VEGAN GUMMIES

with Syndeo® Gelling

INGREDIENTS	weight in %
Water	38.3
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



PROCEDURE

- 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;
- 1/ Deposit in starch trays and dry gummies for 72 to 96 hours at 32°C.



BENEFITS

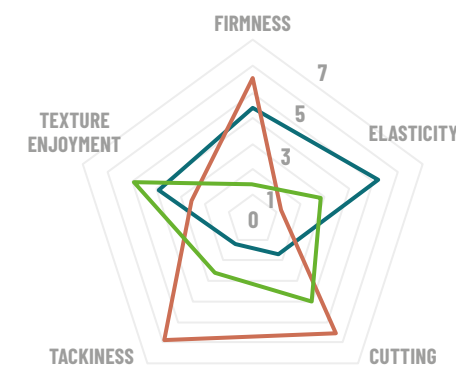
Syndeo® Gelling is an effective vegan gelling agent that will bring texture and mouthfeel improvement to gummies. The texture provided by Syndeo® Gelling is perfectly balanced between a gelatin gel and a pectin gel. It provides low hardness and much more elasticity than pectin, while not creating adhesiveness.

Sensory analysis

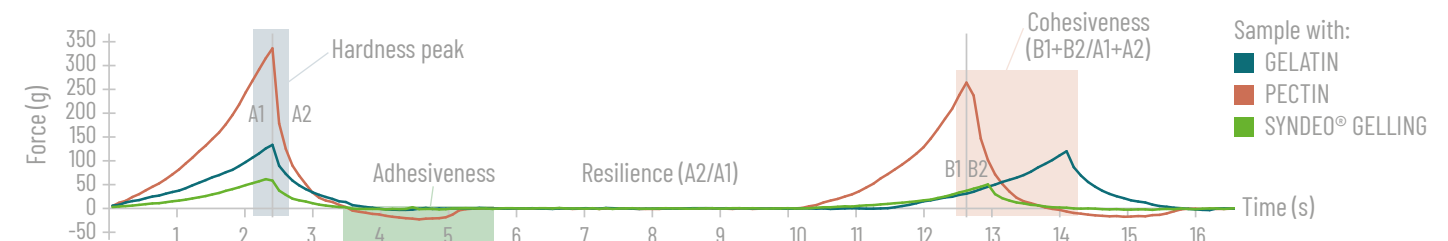
The sensory analysis is in line with the results obtained by the texturometer.

Gummies with:

- GELATIN
- PECTIN
- SYNDEO® GELLING



Texture Profile Analysis of gummies



The signature of a gelatin gel is high cohesiveness and relatively high hardness. Pectin gels show higher hardness and adhesiveness than gelatin. On cohesiveness, Syndeo® Gelling provide a middle ground between gelatin and pectin. Pectin shows low resilience (elastic recovery) and high adhesiveness, although Syndeo® Gelling and gelatin provide a similar expected resilience.

#MARKET TREND

NATURAL GUMS ARE ON-TREND PRODUCTS

Consumers search for natural, simple products with shortened ingredients lists and multiple and ethical properties. They have become demanding and more and more informed about the products they consume. And the properties of natural gums make it possible to respond to the evolution of recent societal trends, in all their diversity. A real miracle product, they combine nutritional, functional and also environmental benefits. Overview of trends they are in keeping with:



**NATURALINESS:
CLEAN LABEL
TREND**



**VEGGIE
TREND**



**NO NEGATIVE
IMPACT
ON THE PLANET**



**SIMPLIFYING
FORMULAS:
CLEAR LABEL
TREND**



**ETHICAL,
RESPONSIBLE
PRODUCTS**

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