

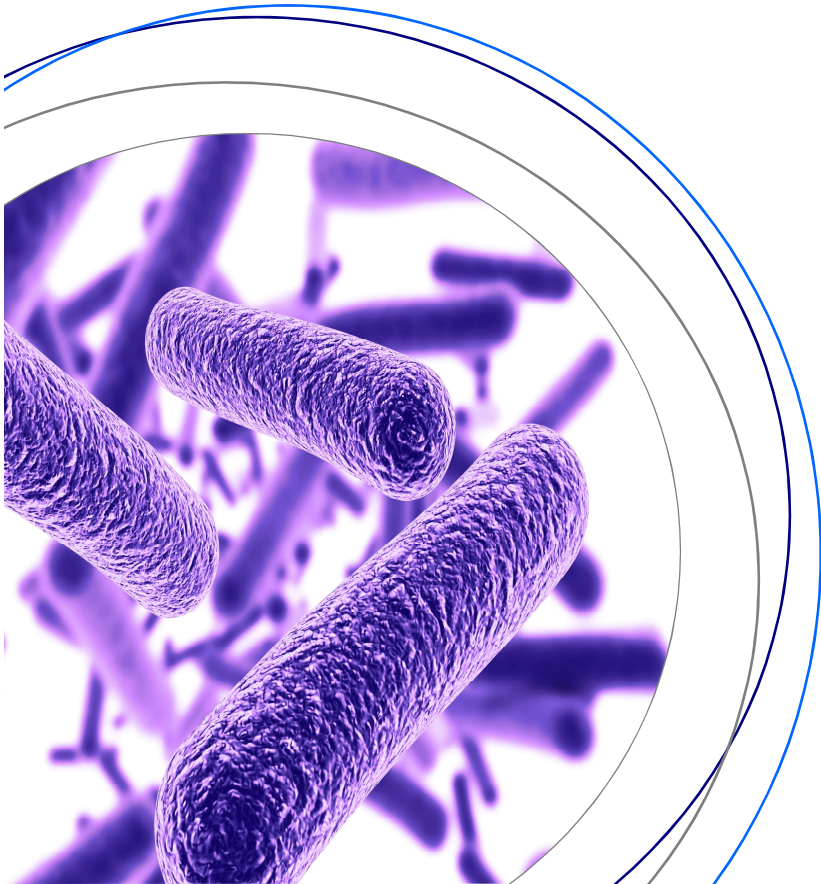
The logo for Gobiotics Ingredients is a purple pentagon with three small white circles at the top. The word "Gobiotics" is written in a white serif font, and "Ingredients" is written in a smaller, purple serif font below it.

Gobiotics
Ingredients

Natural & Sustainable

preBIULIN C90

Prebiotic Thickener





preBIULIN C90

Multi task thickening

Combination derived from:

- **Purified native Inulin derived from Chicory Root**
- **Cellulose Gum derived from Cotton and Wood pulp**
- **Xanthan gum highly purified – Vegan compliant**

Minor ingredients

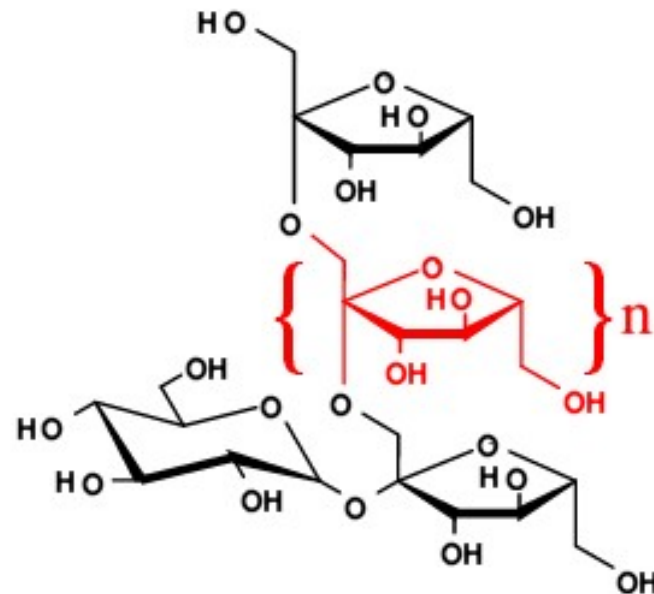
- **Fructose derived from Chicory Root**
- **Glucose derived from Chicory Root**
- **Cellulose derived from Cotton and Wood pulp**



Prebiotic sugars – The Main Actor

● Inulin from Chicory root (*Intibus chicorium*)

- The root contains 17% inulin
- Linear GF_n n=2-60 (G=glucose, F= fructose)
- β (2-1) bound
- Only the inulinase enzyme can digest inulin

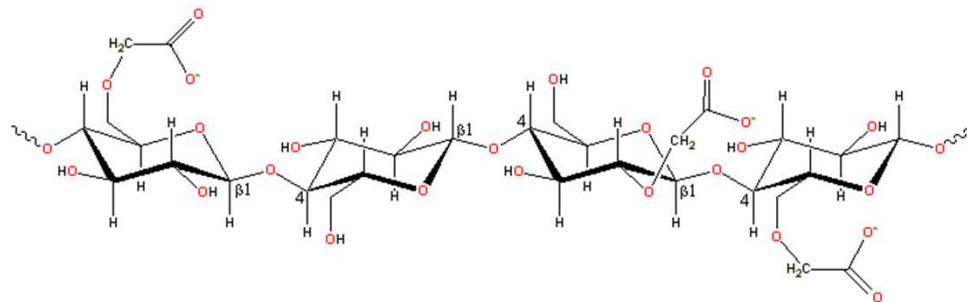
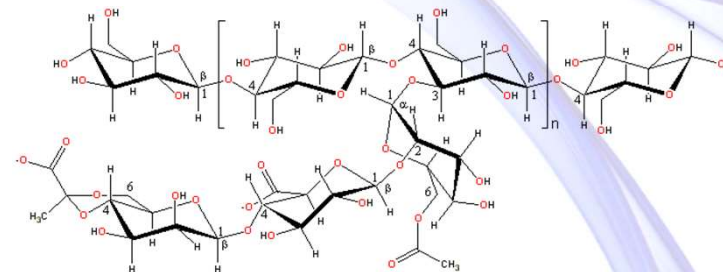
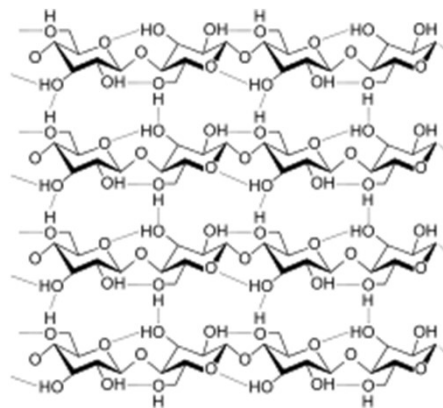
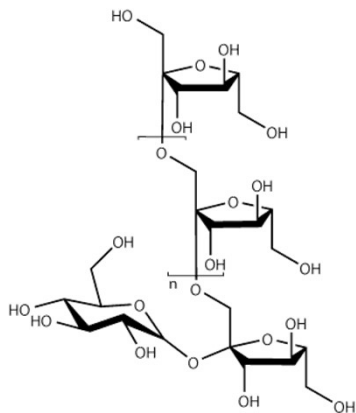




preBIULIN C90

Multi task thickening

Combination derived from:

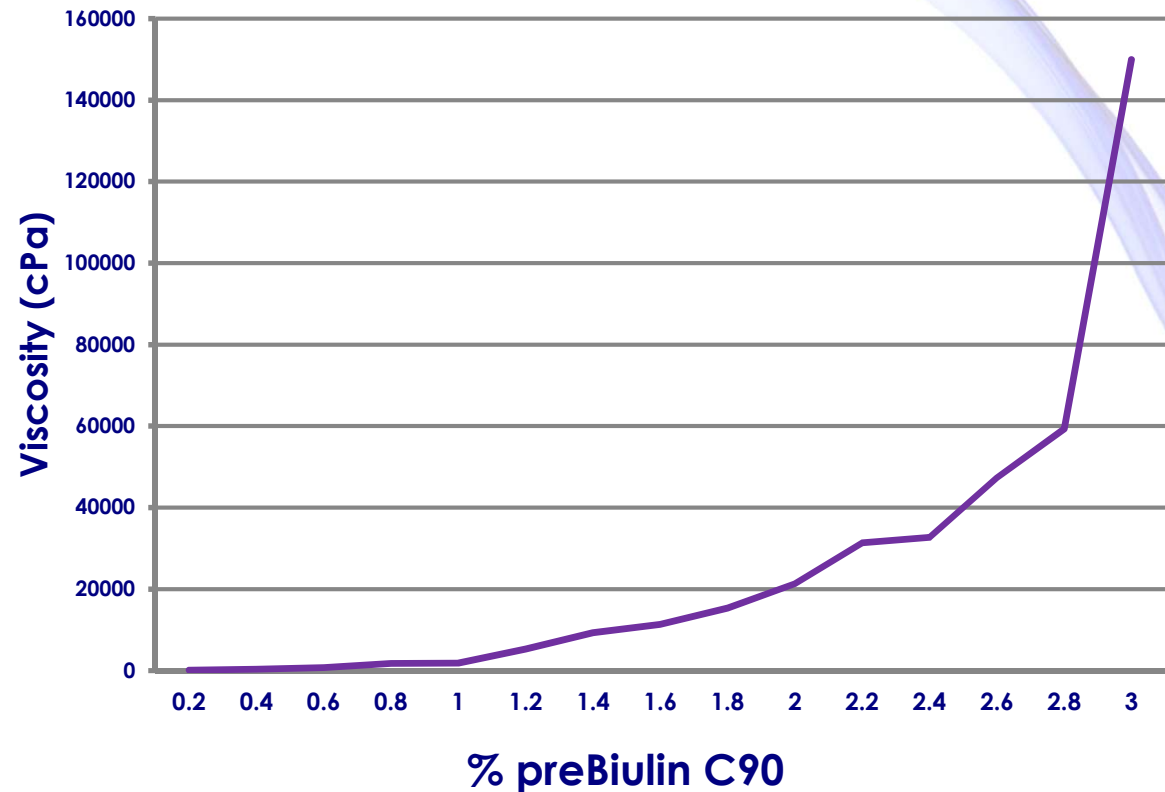




preBIULIN C90

Afraid of Nothing

- Thickens surfactants SLES free – Clear
- Forms clear gels
- Stabilizes/ thickens emulsions
- All pH ranges
- Salt resistant





preBIULIN C90

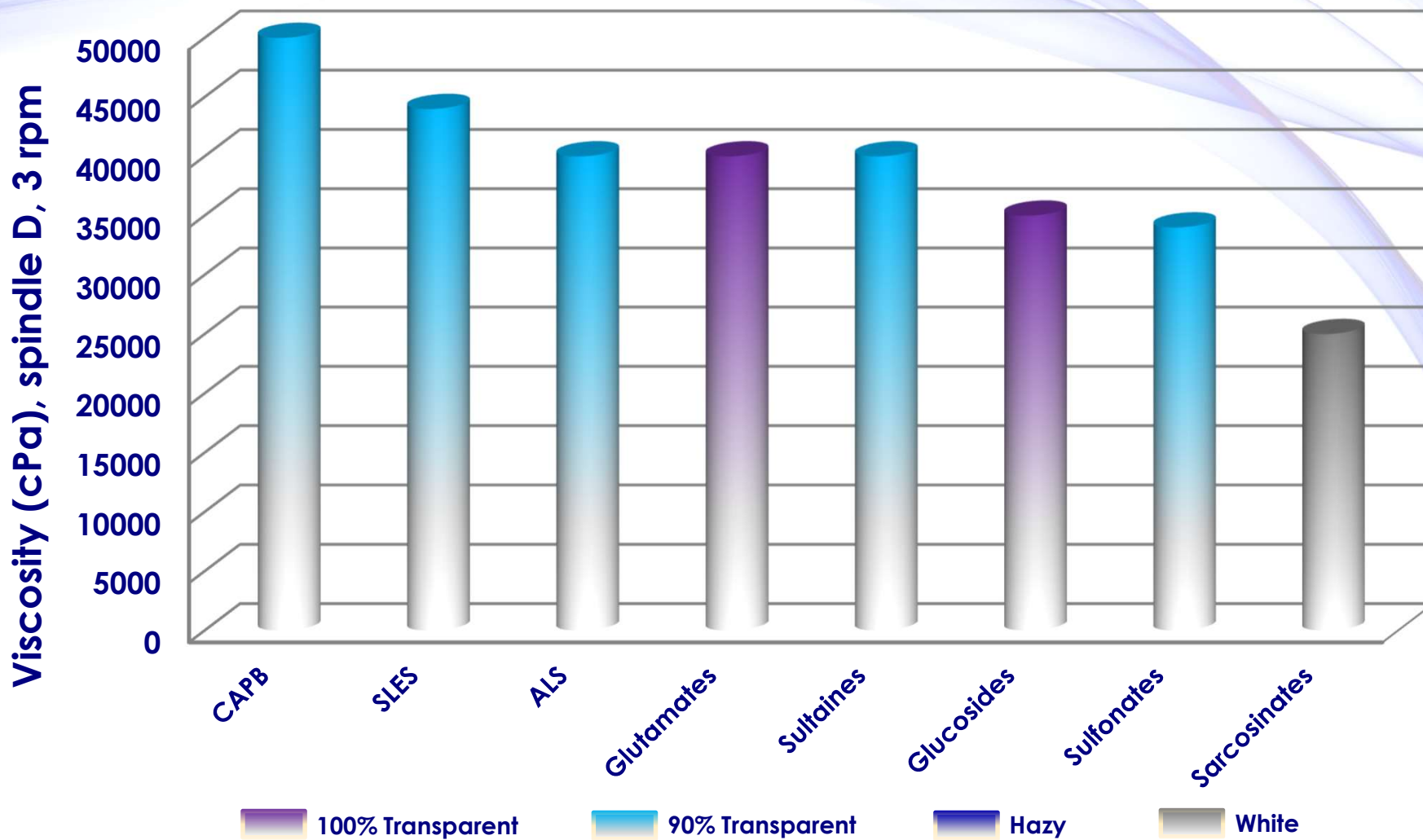
With surfactants

Surfactant	Thickening	Transparent
Sarcosinates		
ALS	<7%	
SLES		
Sulfonates	<7%	
Glucosides		
Glutamates		
CAPB		
Sultaines		



preBIULIN C90

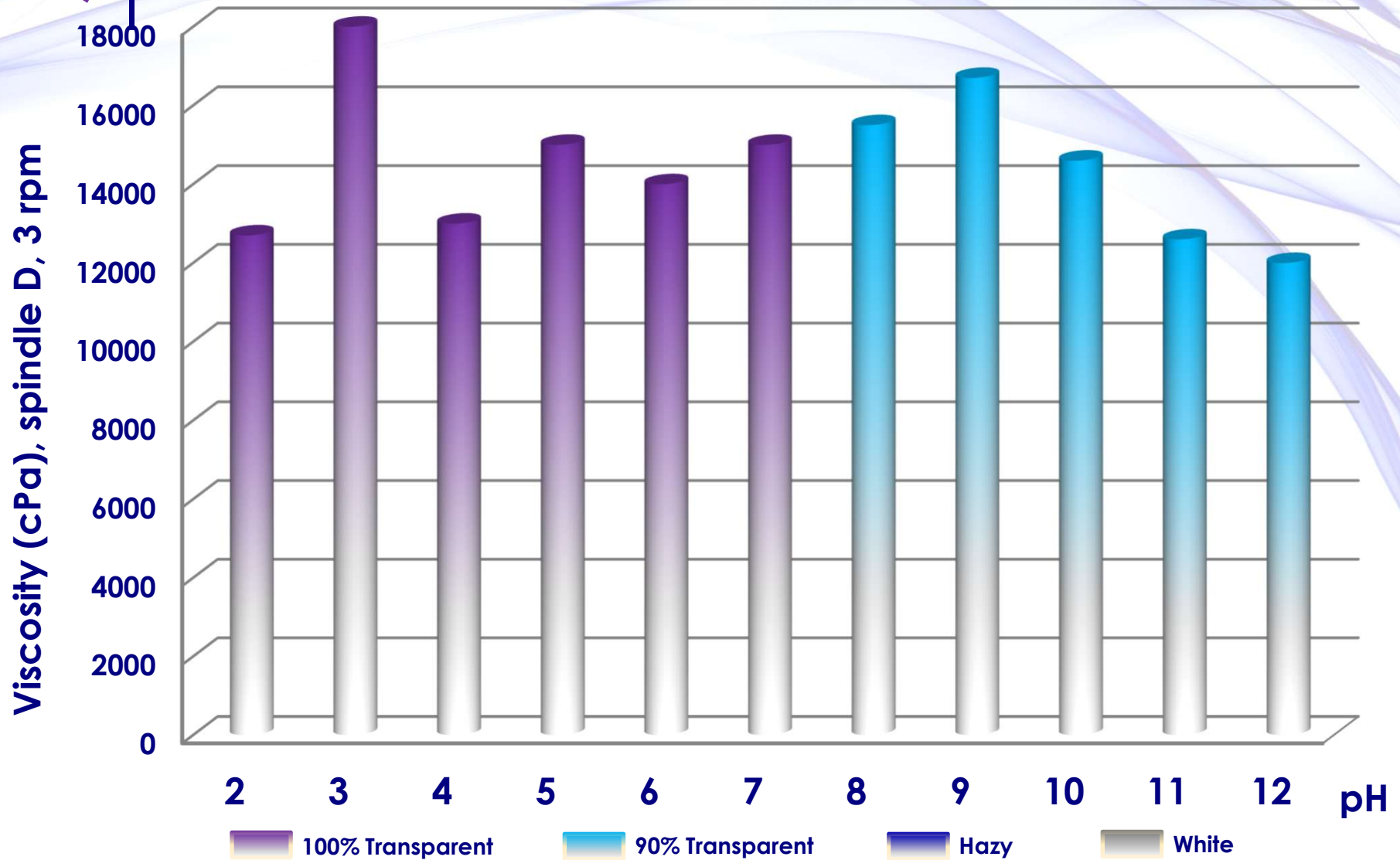
With surfactants





preBIULIN C90

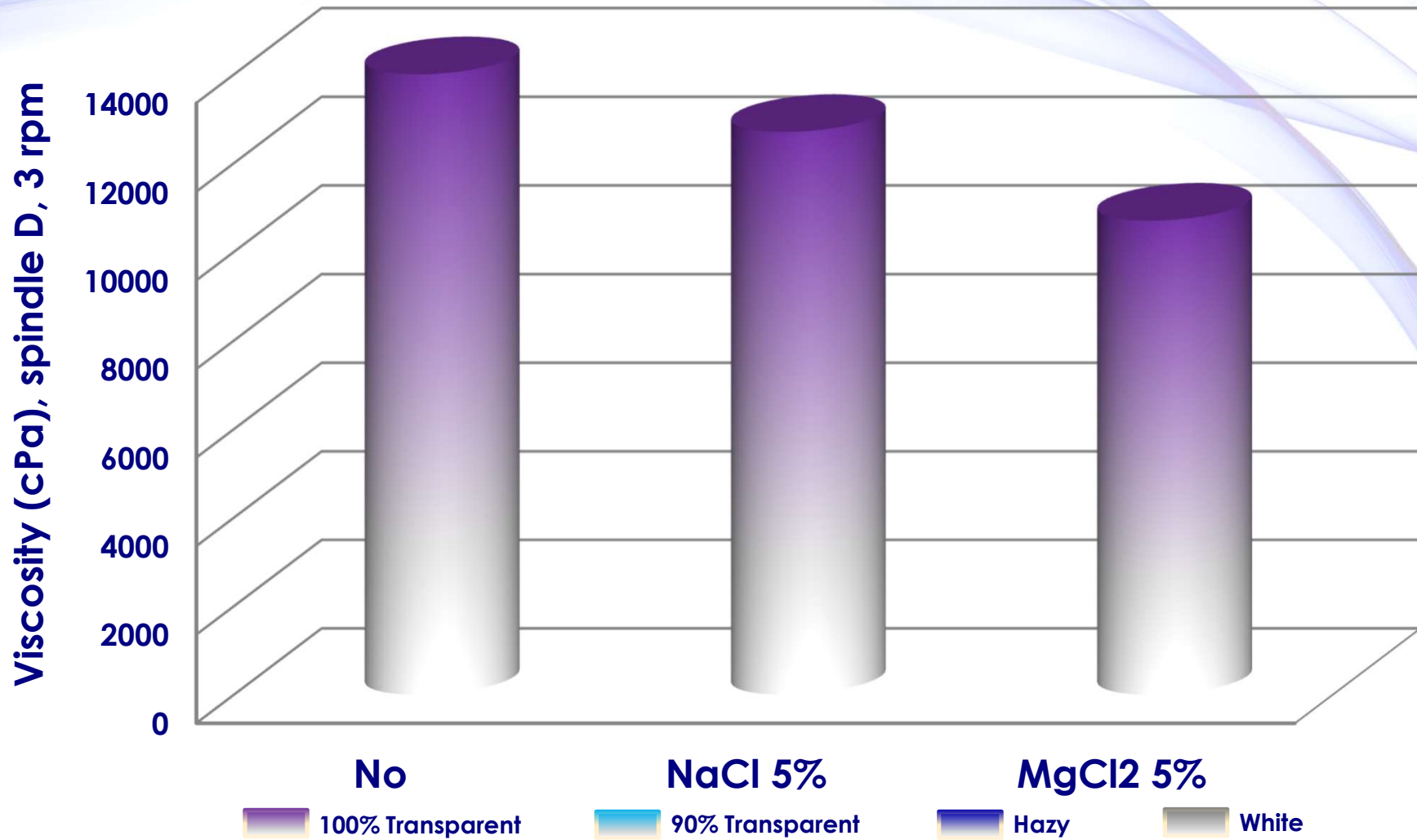
In different pH conditions





preBIULIN C90

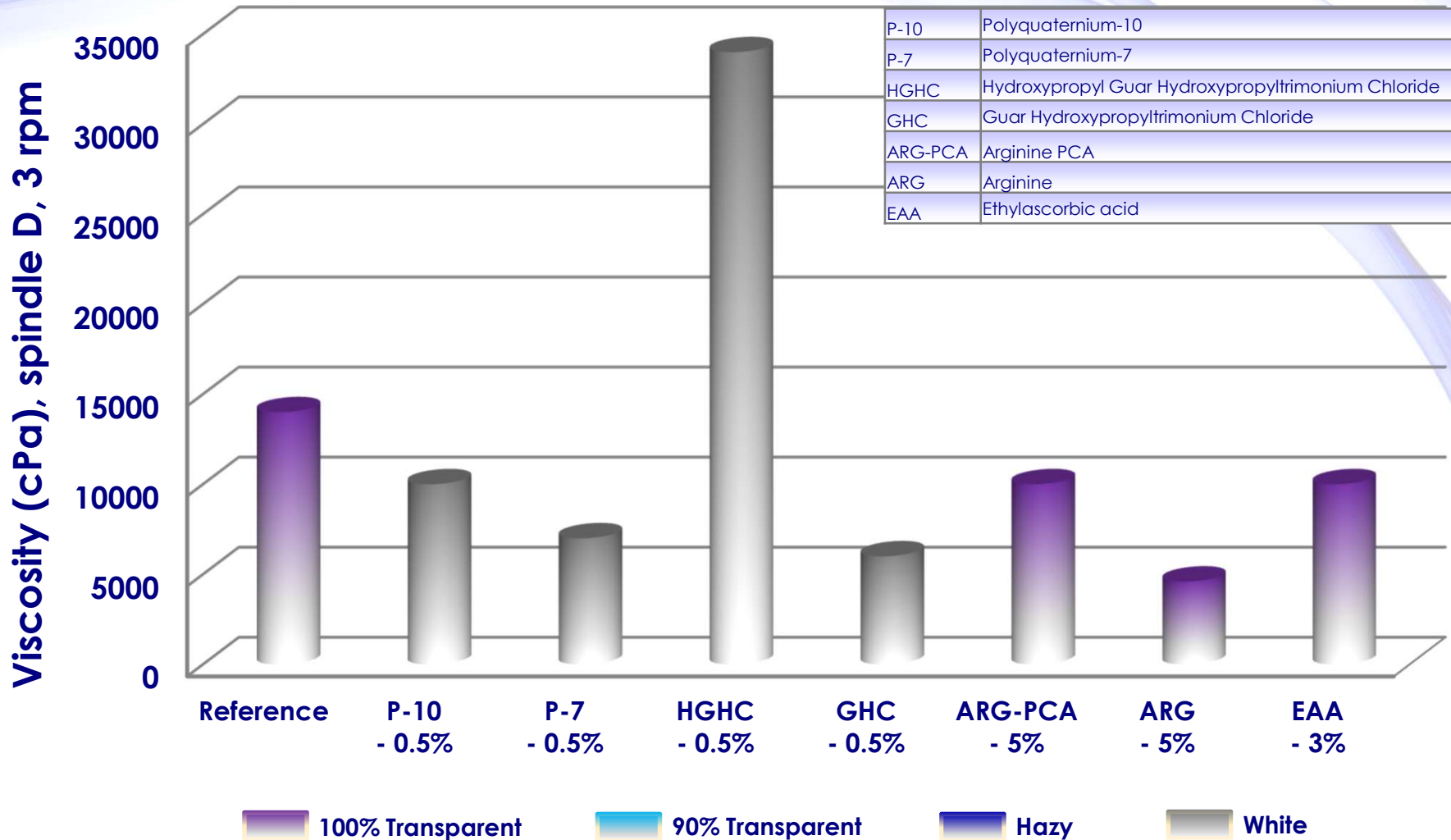
With salts





preBIULIN C90

With different ingredients





preBIULIN C90

Practical Surfactants



Protocol

- Disperse slowly preBIULIN C90 as first ingredient in the water.
- Small lumps will be formed
- When lumps disappeared, keep mixing for 30min.
- Add water soluble ingredients (plant extracts, salt, preservatives, colorants,...)
- Add Anionic surfactants
- Add Non-ionic surfactants
- Add Amphoteric surfactants under pH 6
- Keep mixing well as surfactant needs to go into the preBIULIN C90 structure.
- Add polyquat's at end if possible



Movie



preBIULIN C90

Practical Surfactants



Pit falls

When too much ingredients are present in the water:

- Haziness appears
- preBIULIN C90 is salted out – viscosity loss
- Together with other thickeners haziness can appear

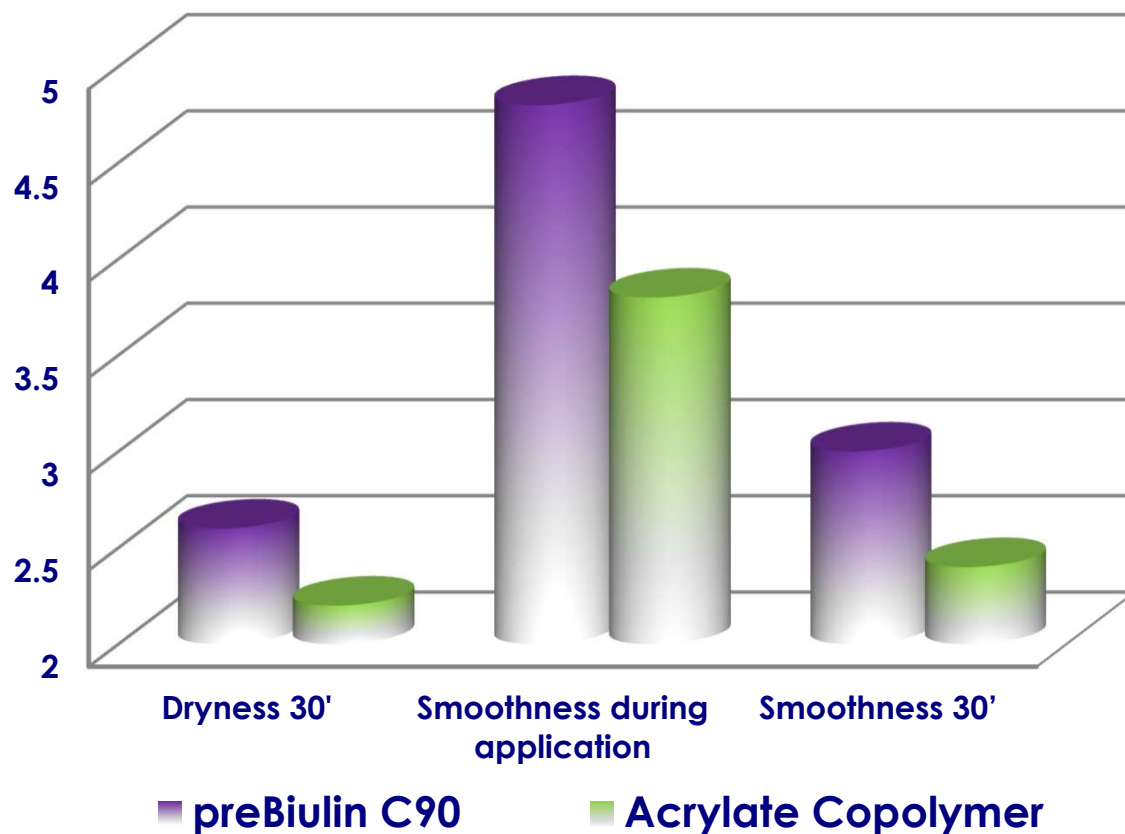




preBIULIN C90

Skin Cuddling/Coddling

- Noticeable conditioning effect in rinse off
- Provides exceptional sensorial gel
- Provides a luxury skin feel in emulsions





preBIULIN C90

Deaeration

preBIULIN C90



Acrylate





preBIULIN C90

Practical Gels/ serums

- **EASY!!!!**
- **Dosage 0,1-3%**
- **Cold dispersion => hazy**
- **Warm dispersion (70-80°C) => Transparent**
- **Water soluble ingredients**  **=> Transparency** 
- **Amazing skin feel up to 2%, above stickiness might occur**



preBIULIN C90

Practical Emulsions

- **Dosage <2% to the waterphase**
- **Cold or warm dispersion no difference**
- **Adding too much preBIULIN C90 destabilizes emulsions (>2% to the waterphase)**
- **Excellent thickener not affected by salt, preservatives, acids, oils,**
- **Medium anticreaming agent, best to combine with other colloids**



preBIULIN C90

Conclusion

- **Natural replacement for acrylates/ Carbomers**
- **Performs better, less limitations**
- **Amazing thickening properties**
- **Luxurious skin feel in Rinse off and leave on**
- **Transparency is possible**



preBIULIN C90

Personal Care concerns

preBIULIN C90 is:

- Vegan
- Cosmos approved
- Palm free
- Made out of renewal raw materials
- Or made out of side streams





preBIULIN C90

Formulations:

- Agave Lifting Serum – LS-180704-C
- Cream – preBiulinC90 – C-180413-A
- Cream – Xanthan Gum – C-1804-13-A-XG
- Microbiotic Anti-Dandruff Shampoo – TAS-180802-C
- Natural Shower Gel / Shampoo – NS-180719-A
- Nature Inspired Conditioning Shampoo – TCS-180813-B
- Sensual Lubricant – L-180705-D
- Serum – S-180413-A
- Transparent Shower Gel – TSG-180413-A
- Shiso Fresh Shampoo – FNS-180719G
- Styling/Caressing Hair Gel – HG-180807-A
- Inulin Intimate Wash – IW-180705-D
- Shampoo Shower Cream – SC-180413-A
- Goodbye Dandruff Shampoo – ADS-180704-H
- Prebiotic Deo Roll On – PDR-170503-E
- Hercules Tooth Paste – RTP-170901-C



preBIULIN C90

Agave Lifting Serum - LS-180704-C

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,4
	Gosulin Agave	Agave Tequilana Leaf Extract, Maltose	Emollient	1,6
	Neopres SAS	Sodium Anisate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	Neopres SC50	Ethylhexylglycerin	Preservative	QS
	Glycerine	Glycerin	Humectant	5
	Fucocert	Aqua, Biosaccharide Gum-1, Glycerin, Glyceryl Caprylate, Sodium Anisate, Sodium Levulinate	Active Ingredients	3
	Hyaluronic Acid HMW Powder	Sodium Hyaluronate	Active Ingredients	0,01
	Revivyl	Orobanche Rapum Extract, Propanediol	Active Ingredients	0,5
B	Lactic Acid	Lactic Acid	pH adjuster	QS
	Sodium Hydroxide	Sodium Hydroxide	pH adjuster	QS



preBIULIN C90

Cream – preBiulin C90 – C-180413-A

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,3
	Xanthan Gum CS	Xanthan Gum	Thickener	0,15
	Euxyl PE9010	Ethylhexylglycerin, Phenoxyethanol	Preservative	QS
	Glycerine	Glycerin	Humectant	3
B	Neowax FL65K	Glyceryl Stearate, PEG-100 Stearate	Emulsifier	5
	Sabonal C1618 50/50	Cetearyl Alcohol	Stabilizer	2
	Squalane Vegetable	Squalane	Vegetable Oil	3
	Macadamia Nut Oil	Macadamia Integrifolia Seed Oil	Vegetable Oil	3
	Apricot Kernel Oil	Prunus Armeniaca Kernel Oil	Vegetable Oil	3
	Neoderm DO	Decyl Oleate	Emollient	1
	Neoderm CSN	Cetearyl Isononanoate	Emollient	1
C	Perfume	Parfum	Parfum	QS
D	Lactic Acid	Lactic Acid	pH adjuster	QS
	Sodium Hydroxide	Sodium Hydroxide	pH adjuster	QS



preBIULIN C90

Cream – preBiulin C90 – C-180413-A-XG

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	QS
	Xanthan Gum CS	Xanthan Gum	Thickener	1,3
	Euxyl PE9010	Ethylhexylglycerin, Phenoxyethanol	Preservative	QS
	Glycerine	Glycerin	Humectant	3
B	Neowax FL65K	Glyceryl Stearate, PEG-100 Stearate	Emulsifier	5
	Sabonal C1618 50/50	Cetearyl Alcohol	Stabilizer	2
	Squalane Vegetable	Squalane	Vegetable Oil	3
	Macadamia Nut Oil	Macadamia Integrifolia Seed Oil	Vegetable Oil	3
	Apricot Kernel Oil	Prunus Armeniaca Kernel Oil	Vegetable Oil	3
	Neoderm DO	Decyl Oleate	Emollient	1
	Neoderm CSN	Cetearyl Isononanoate	Emollient	1
C	Perfume	Parfum	Parfum	QS
D	Lactic Acid	Lactic Acid	pH adjuster	QS
	Sodium Hydroxide	Sodium Hydroxide	pH adjuster	QS



preBIULIN C90

Microbiotic Anti-Dandruff Shampoo TAS-180802-C

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.3
	Sodium Anisate	Sodium Anisate	Preservative	QS
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Plantacare 2000 UP ⁽²⁾	Decyl Glucoside, Aqua	Surfactant	9
B	Eversoft UCS-30S ⁽³⁾	Aqua, Disodium Cocoyl Glutamate	Surfactant	15
	Citric acid	Citric Acid	pH adjuster	QS
C	Octopirox ⁽⁴⁾	Piroctone Olamine	Anti-dandruff active	0.3
	Ronacare Salicylic Acid ⁽⁵⁾	Salicylic Acid	Preservative	QS
	preBiulin FOS ⁽¹⁾	Inulin, Fructose	Active	1
D	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Natural Shower Gel – NS-180719-A

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,3
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	Tego Betain F50	Aqua, Cocamidopropyl Betaine	Surfactant	9
B	Biosurf SCG	Aqua, Sodium Cocoyl Glutamate, Sodium Lauroyl Glutamate	Surfactant	15
	Citric Acid	Citric Acid	pH adjuster	QS
C	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Nature Inspired Conditioning Shampoo TCS-180813-B

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.5
	Perlastan SC ⁽²⁾	Aqua, Sodium Cocoyl Glutamate	Surfactant	30
B	Plantacare 2000 UP ⁽³⁾	Decyl Glucoside, Aqua	Surfactant	8
	Eucalyptus Oil Glob	Eucalyptus Globulus Leaf Oil	Essential Oil	0.8
C	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
D	Colourants	-	Colourant	QS
C	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Sensual Lubricant – L-180705-D

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,4
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Propylene Glycol	Propylene Glycol	Humectant	5
	Glycerine	Glycerin	Humectant	2
	Panthenol 75%	Aqua, Panthenol	Vitamin	2
	Neopres LA-T	Aqua, Glycerin, Levulinic Acid, Sodium Levulinate	Preservative	QS
	Biolin/P	Alpha-Glucan Oligosaccharide, Inulin	Active Ingredient	2
	Aloe Vera Powder	Aloe Barbadensis Leaf Juice Powder	Plant Extract	0,1
B	Polysorbate 20	Polysorbate 20	Emulsifier	1
	Parfum	Parfum	Parfum	QS
C	Lactic Acid	Lactic acid	pH ajuster	QS



preBIULIN C90

Serum – S-180413-A

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,5
	Neopres SAS	Sodium Anisate	Preservative	QS
B	Sodium Hydroxide	Sodium Hydroxide	pH adjuster	QS
	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Transparent Shower Gel – TSG-180413-A

Phase	Raw material	Ingredients	Activity	%
A	Aqua	Aqua	Solvent	QS
	preBiulin C90	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,6
	Neopres SAS	Sodium Anisate	Preservative	QS
	Neopres LA-T	Aqua, Glycerin, Levulinic Acid, Sodium Levulinate	Preservative	QS
	Biosurf SCG	Aqua, Sodium Cocoyl Glutamate, Sodium Lauroyl Glutamate	Surfactant	35
	Inutec H25P	Inulin	Conditioner	2
B	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Shiso Fresh Shampoo – FNS-180719-A

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.3
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Plantacare 2000 UP ⁽²⁾	Decyl Glucoside, Aqua	Surfactant	9
B	Eversoft UCS-30S ⁽³⁾	Aqua, Disodium Cocoyl Glutamate	Surfactant	15
	Citric acid	Citric Acid	pH adjuster	QS
C	Perfume	Parfum	Parfume	QS
	Poly Suga Mulse D9 ⁽⁴⁾	Sorbitan Oleate Decylglucoside Crosspolymer, Aqua	Solubilizer	2
D	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Styling/Caressing Hair Gel – HG-180807-A

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	2.5
	Luviskol PVP K30 ⁽²⁾	PVP	Styling Agent	4.5
	Ethanol 96%	Alcohol Denat.	Drying out	15
	Sodium Benzoate	Sodium Benzoate	Preservative	QS



preBIULIN C90

Inulin Intimate Wash – IW-180705-D

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.2
	preBiulin OP ⁽¹⁾	Cichorium Intybus Extract	Opacifier	3
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	Aloe Vera Powder	Aloe Barbadensis Leaf Juice Powder	Extract	0.01
	Panthenol 75%	Panthenol, Aqua	Active	0.5
B	Lamesoft PO65 ⁽²⁾	Aqua, Disodium Cocoyl Glutamate	Surfactant	2
	Perfume	Parfum	Perfume	QS
C	Eversoft UCS-30S ⁽³⁾	Aqua, Disodium Cocoyl Glutamate	Surfactant	30



preBIULIN C90

Shampoo Shower Cream – SC-180413-A

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.3
	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	preBiulin OP ⁽¹⁾	Cichorium Intybus Extract	Opacifier	3
	Eversoff UCS-30S ⁽²⁾	Aqua, Disodium Cocoyl Glutamate	Surfactant	35
B	Citric Acid	Citric Acid	pH adjuster	QS



preBIULIN C90

Goodbye Dandruff Shampoo – ADS-180704-H

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1.4
B	Perlastan SC ⁽²⁾	Aqua, Sodium Cocoyl Glutamate, Sodium Lauroyl Glutamate	Surfactant	25
	Citric Acid	Citric Acid	pH adjuster	QS
C	Sodium Benzoate	Sodium Benzoate	Preservative	QS
	Potassium Sorbate	Potassium Sorbate	Preservative	QS
	Piroctone Olamine	Piroctone Olamine	Active	0.2
	Salicylic Acid	Salicylic Acid	Active	0.2
	preBiulin FOS ⁽¹⁾	Inulin, Fructose	Prebiotic protection	2
D	Lamesoft PO65 ⁽³⁾	Coco Glucoside, Glyceryl Oleate, Aqua	Surfactant	5
	Menthol Natural	Menthol	Cooling agent	0.4
	Eucalyptus Oil	Eucalyptus Globulus Leaf Oil	Perfume	0.1
E	preBiulin OP ⁽¹⁾	Cichorium Intybus Extract	Opacifier	3



preBIULIN C90

Prebiotic Deo Roll On – PDR-170503-E

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	preBiulin C90 ⁽¹⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	1,2
	Sodium Anisate	Sodium Anisate	Preservative	QS
	Cosphaderm LA-T ⁽²⁾	Levulinic Acid, Glycerin, Aqua, Sodium Levulinate	Preservative	QS
	NaOH	Sodium Hydroxide	pH adjuster	QS
	preBiulin FOS ⁽¹⁾	Inulin, Fructose	Active	2
	Ethanol 98%	Alcohol Denat	Solvent	5
B	Glyceryl Caprylate	Glyceryl Caprylate	Preservative	QS
	Sensiva SC50 ⁽³⁾	Ethylhexylglycerin	Deo active	1
	Ryoto L-7D ⁽⁴⁾	Polyglyceryl-10 Laurate	Solubilizer	0.5



preBIULIN C90

Hercules Tooth Paste – RTP-170901-C

Phase	Product Name	INCI	Function	%
A	Water	Aqua	Solvent	QS
	EDETA BD ⁽¹⁾	Disodium EDTA	Additive	0.1
	preBIULIN C90 ⁽²⁾	Cellulose Gum, Xanthan Gum, Inulin, Cellulose, Glucose, Fructose	Thickener	0.8
	Sorbitol 70%	Sorbitol, Aqua	Humectant	30
	Calcium Carbonate	Calcium Carbonate	Filler	10
	Remytec FI ⁽²⁾	Oryza Sativa Starch	Abrasive particle	25
	preBIULIN FOS ⁽²⁾	Inulin, Fructose	Active	5
	Stevia	Stevia Rebaudiana Leaf/Stem Extract	Sweetener	0.03
	Sodium Saccharin	Sodium Saccharin	Sweetener	0.01
B	Perlastan L30 ⁽³⁾	Aqua, Sodium Lauroyl Sarcosinate	Surfactant	1.5
	Aroma	Aroma	Aroma	QS

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Gobiotics
Ingredients

Natural & Sustainable

**THANK YOU FOR
YOUR ATTENTION**

