

# CAPROCINE

## Minasolve™ CapEasy

### MULTIFUNCTIONAL INGREDIENTS

- ✓ *Anti-sebum*
- ✓ *Anti-odor*
- ✓ *Anti-dandruff*
- ✓ *Preservative booster*
- ✓ *Anti-microbial*

**MINASOLVE**  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

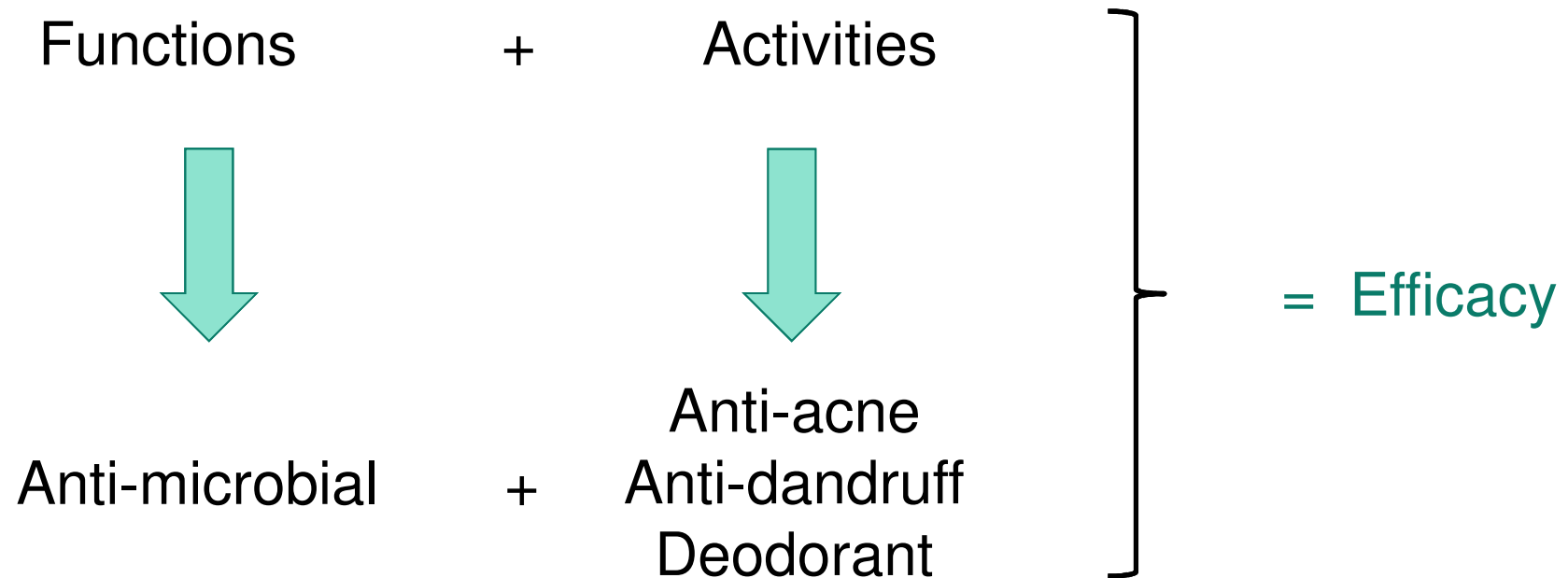
green  
solving  
attitude.

# Caprocine

## Multifunctional ingredient

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What are they good for? Why use them?



# Caprocine Flow chart

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**Octanoyl  
Chloride** + **Glycine**



# Caprocine

## The « one for everyone »

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**One solution**

**For multiple needs**

**Adapted for everyone**



# Caprocine

## Preservative booster

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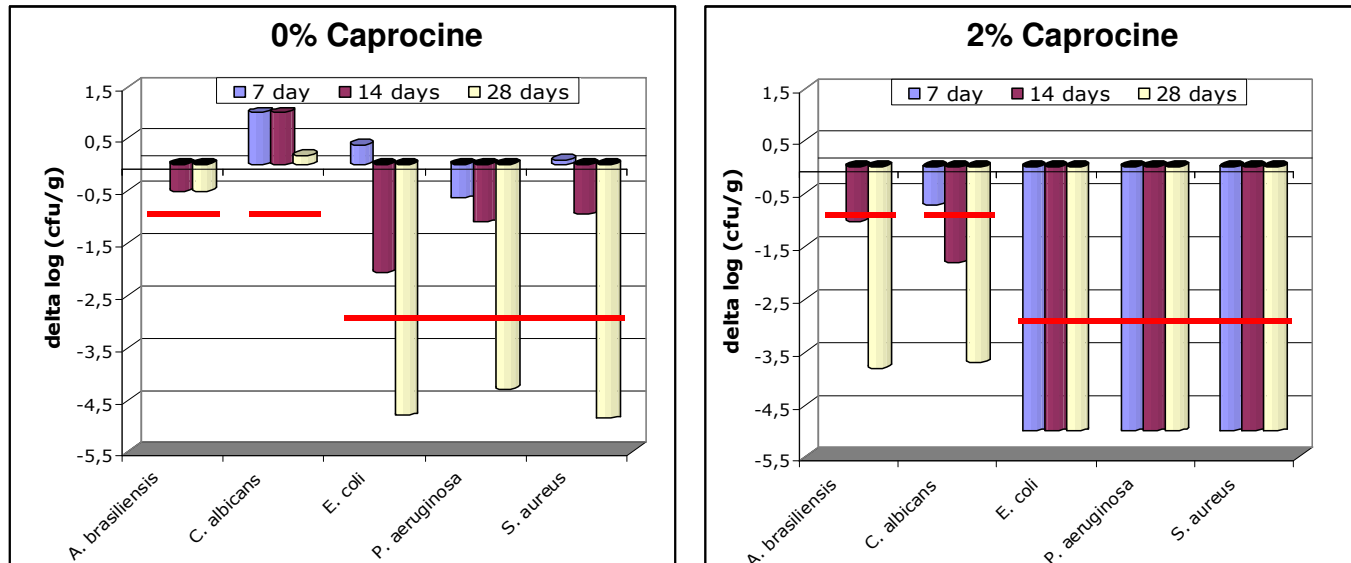
Phase	Ingredient	INCI name	%
<b>A</b>	Water	Aqua	<b>ad 100</b>
	Xanthan Gum	Xanthan Gum	<b>0.5</b>
	<b>Caprocine</b>	<b>Capryloyl Glycine</b>	<b>0.0 or 2.0</b>
	<b>A-Leen 5</b>	<b>Pentylene Glycol</b>	<b>2.0</b>
<b>B</b>	Emulgade PL 68/50	Cetearyl Glucoside (and) Cetearyl Alcohol	<b>5.0</b>
	Lipex Sheasoft	Butyrospermum Parkii (Shea) Butter	<b>3.0</b>
	Lipovol J	Simmondsia Chinensis (Jojoba) Oil	<b>3.0</b>
	Lipovol HNO	Corylus Americana (Hazel) Seed Oil	<b>3.0</b>
<b>C</b>	Bioxan T70	Tocopherol	<b>0.1</b>
<b>D</b>	50 % aq. Citric acid	Citric Acid (and) Aqua	ad pH 5.5



# Caprocine

## Preservative booster

### Challenge test in an O/W-emulsion, pH 5,5



Results within experimental error  
of 0.5 delta log (cfu/g)

— requirements of DIN EN ISO 11930  
for log-reduction after 28 days

Powder



Caprocine

Liquid



MinaSolve  
CapEasy

Patent pending technical  
solution  
developed to facilitate  
the use of Caprocine,  
following an eco-  
conception approach for  
its production and usage

**MINASOLVE**  
BIG INGREDIENTS FOR YOUR

# Minasolve CapEasy

## The Caprocline liquid version



### CAPROCINE

### MinaSolve CapEasy

Appearance	White or off-white crystalline <b>powder</b>	Almost colourless <b>liquid</b>
INCI	Capryloyl Glycine	Water, Capryloyl Glycine, Sodium Bicarbonate
% of use	0,1-2%	0,3-7%
Formulation	<ul style="list-style-type: none"> <li>▪ Slightly water soluble powder</li> <li>▪ Can be pre-dissolved inside the water phase of formulations by adjusting the pH to &gt;7</li> </ul>	<ul style="list-style-type: none"> <li>▪ Soluble in water</li> <li>▪ Can be formulated at any stage of the process</li> </ul>
	▪ pH of final formulation: 4-7	
Label		

The performance of  
Caprocline now in a  
liquid form

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# Minasolve CapEasy Advantages

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## +Eco-conception approach

- **In its production:** no need for solid separation (water removal) of the Capryloyl Glycine as for Caprocine
- **In its formulation:** no heating, premixing or pH-adjustment

## +Production

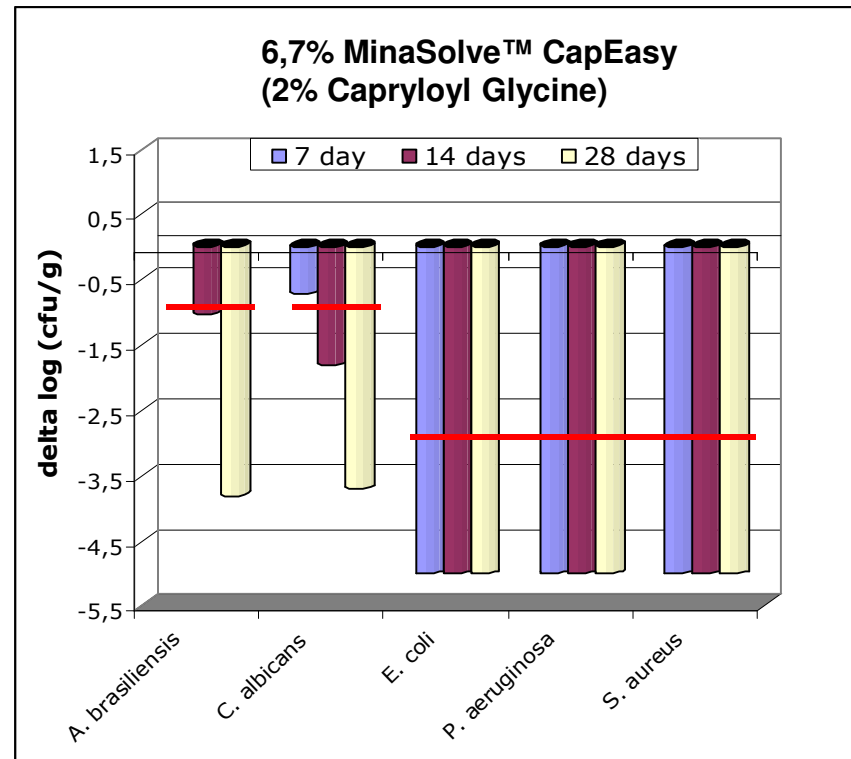
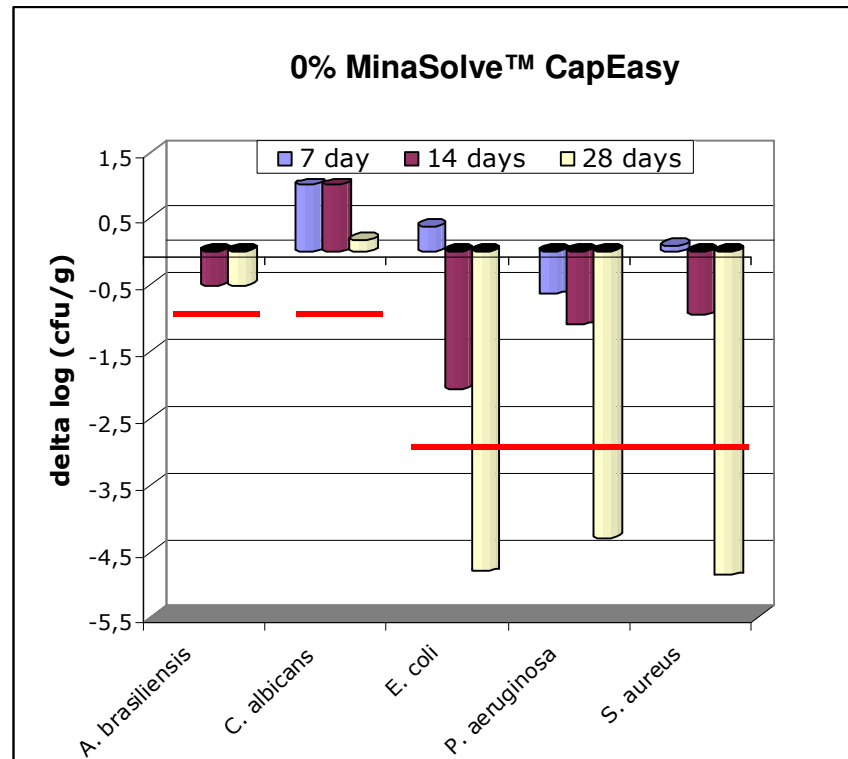
- No heating, premixing or pH-adjustment
- No powder handling

## +Formulation

- Water soluble
- Suitable for cold processing
- Can be added at any step of the formulation
- Easy substitution of Caprocine

# Minasolve CapEasy Performance

## Challenge test in an O/W-emulsion, pH 5,5



— requirements of DIN EN ISO 11930 for log-reduction after 28 days

*Results within experimental error of 0.5 delta log (cfu/g)*

**=> Anti-microbial properties**

**MINASOLVE®**  
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# Minasolve CapEasy

## Performance

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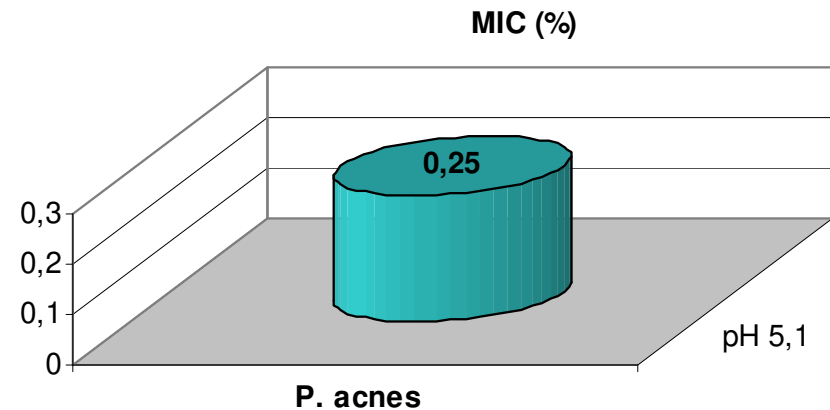
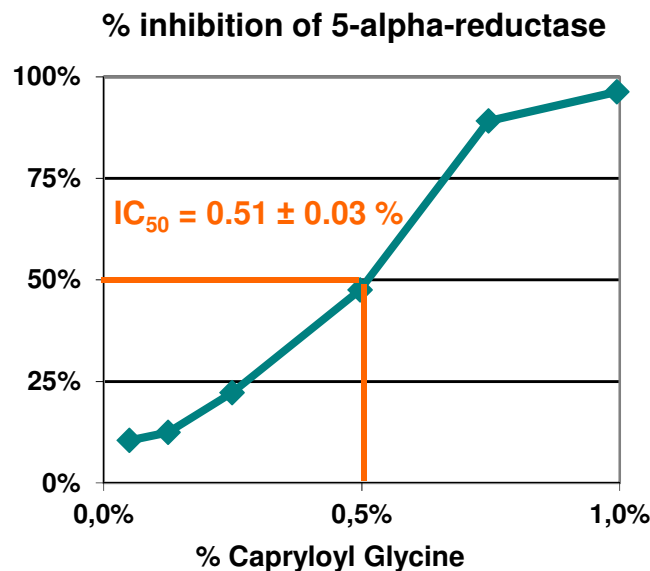
O/W-emulsion, pH 5,5

Phase	Ingredient	INCI name	%
<b>A</b>	Water	Aqua	ad 100
	Xanthan Gum OC	Xanthan Gum	0.5
	MinaSolve™ CapEasy	Water (and) Capryloyl Glycine (and) Sodium Bicarbonate	0 or 6.7%
	A-Leen 5	Pentylene Glycol	2.0%
<b>B</b>	Emulgade PL 68/50	Cetearyl Glucoside (and) Cetearyl Alcohol	5.0
	Lipex Sheasoft	Butyrospermum Parkii (Shea) Butter	3.0
	Lipovol J	Simmondsia Chinensis (Jojoba) Oil	3.0
	Lipovol HNO	Corylus Americana (Hazel) Seed Oil	3.0
<b>C</b>	Bioxan T70	Tocopherol	0.1
<b>D</b>	50 % aq. citric acid	Citric Acid (and) Aqua	ad pH 5.5

# Minasolve CapEasy Anti-sebum

+ Ingredient of choice for anti-acne products

ONE FOR  
EVERYONE



Inhibits the 5 $\alpha$ -reductase, a key enzyme  
in the regulation of sebum production

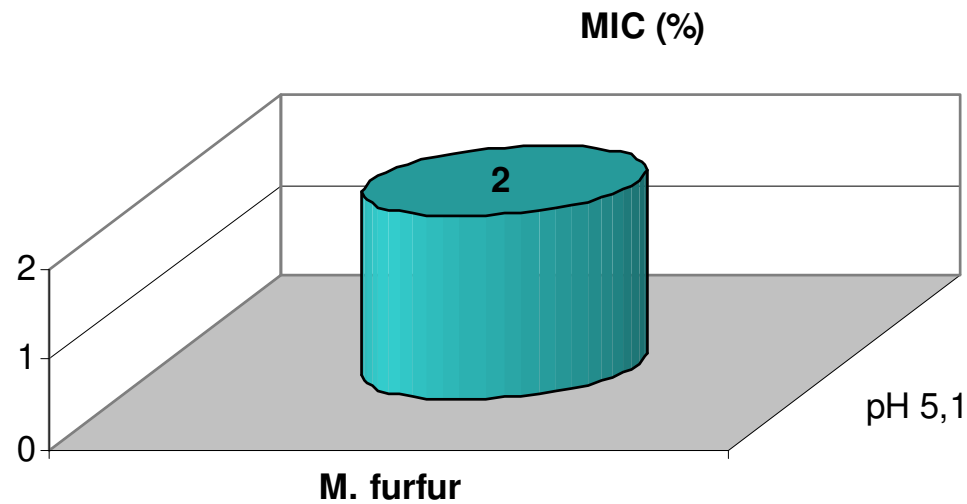
Targeted activity  
against *Propionibacterium acnes*

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# Minasolve CapEasy Anti-dandruff



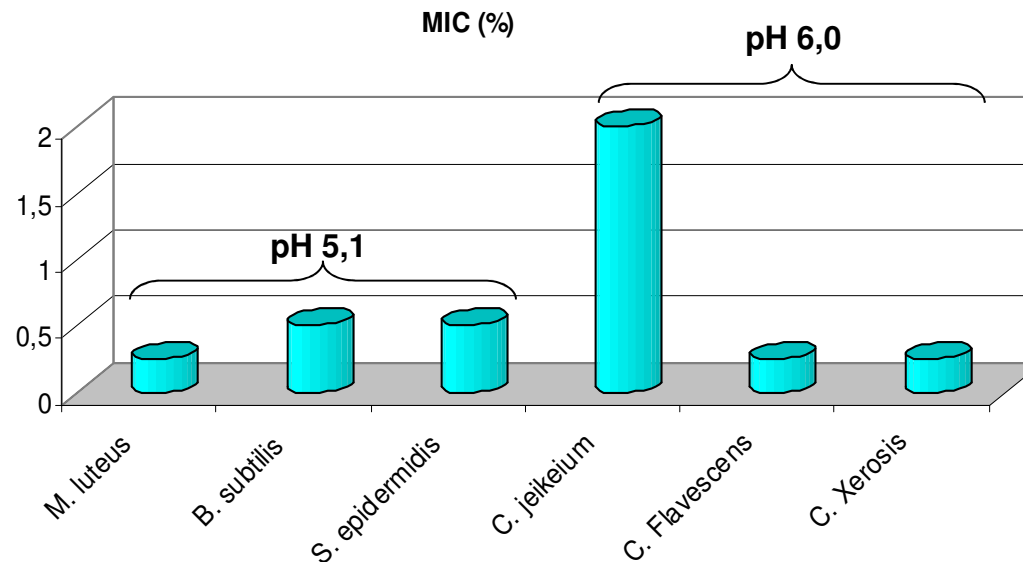
+ Enables to **reduce dandruff formation**



Microbicide activity against the **yeast *Malassezia furfur***

# Minasolve CapEasy Anti-odor

+ Application enlarged to **deodorants**

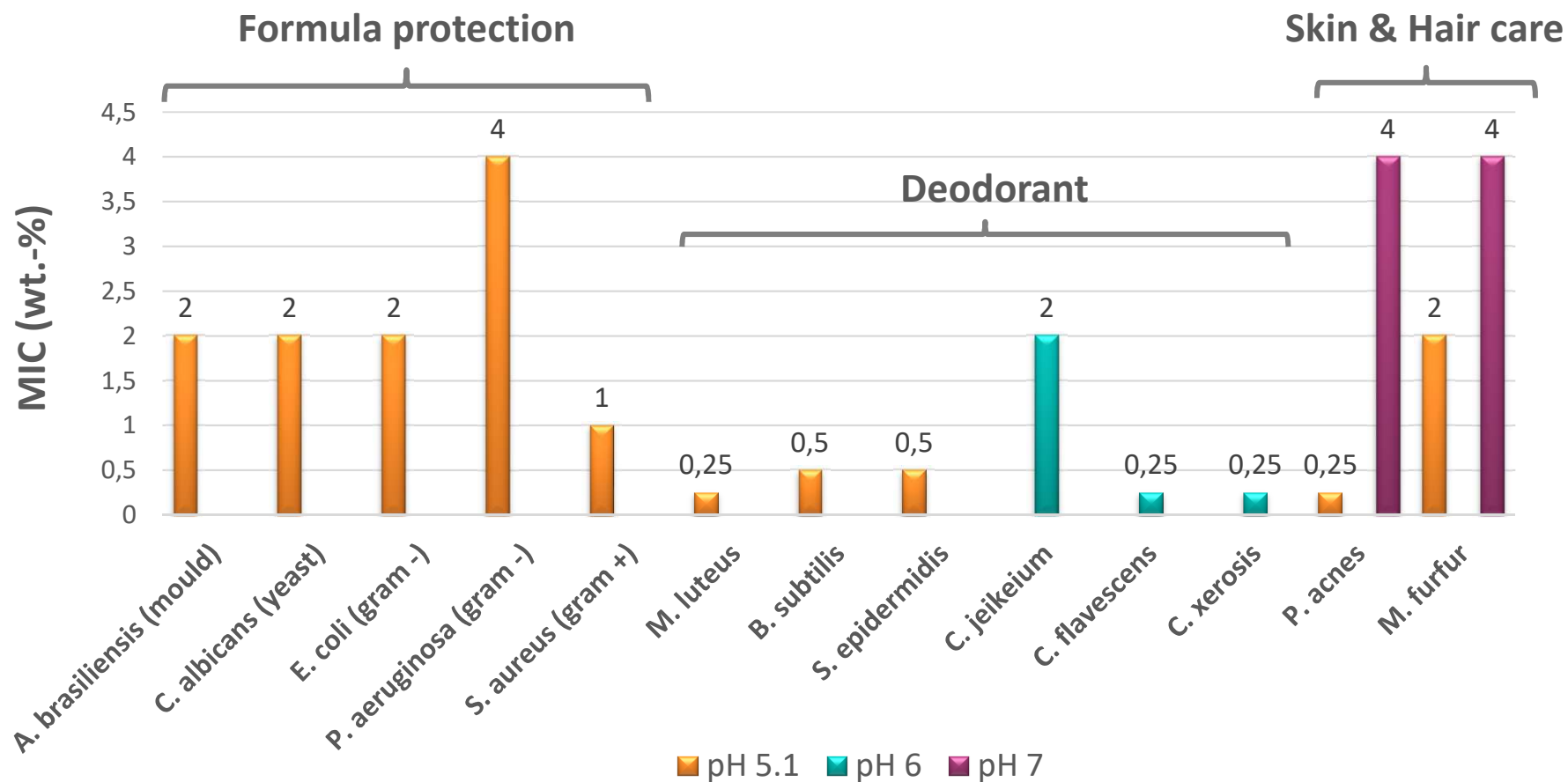


Fights against bacteria involved in the formation of **body odour**

# Minasolve CapEasy

## MIC

ONE FOR EVERYONE



# Minasolve CapEasy

## HRIPT (Human Repeated Insult Patch Test)

### HRIPT protocol :

Skin compatibility study and absence of allergenic potential, after repeated applications of the ingredients under occlusive conditions\*, over 36 days.

\* *Patch material* : Occlusive patch Finn Chamber standard

HRIPT	MinaSolve CapEasy
Number of subjects	55
Age	18-65
Type of skin	All types
Skin Phototype (Fitzpatrick)	I to IV
RESULT	<ul style="list-style-type: none"><li>- No irritative reaction</li><li>- Very good skin compatibility</li><li>- No allergic reaction.</li></ul>

\*Within the focus group, a panel of about 10 % has a sensitive skin.  
After the test, nobody showed skin reaction



# Minasolve CapEasy Concept

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**ONE 4 EVERYONE**  
Anti-dandruff shampoo



**ONE 4 EVERYONE**  
Moisturizing face lotion



**Multifunctional Cleansing  
and Protecting Ingredient**



**ONE 4 EVERYONE**  
Deodorant



**ONE 4 EVERYONE**  
Anti-acne face cleanser



**MINASOLVE®**  
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# Caprocine

## Anti-dandruff shampoo

Phase	Raw material	INCI name	%
<b>A</b>	Water	<i>Aqua</i>	41.6
	TEGO Betain F 50	<i>Cocamidopropyl Betaine</i>	4.5
	Texapon NSO UP	<i>Sodium Laureth Sulfate</i>	35.0
	Plantacare 1200 UP	<i>Lauryl Glucoside</i>	3.0
<b>B</b>	Water	<i>Aqua</i>	10.0
	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.4
	<b>Caprocine</b>	<b>Capryloyl Glycine</b>	<b>1.0</b>
<b>C</b>	Glucamate VLT Thickener	<i>PEG-120 Methyl Glucose Trioleate (and) Propanediol</i>	0.7
<b>D</b>	Perfume Orchidée Blanche	<i>Parfum</i>	0.2
	<b>EasySafe 9010</b>	<b>Phenoxyethanol (and) Ethylhexylglycerin</b>	<b>1.0</b>
	D&C Green #5 (1%)	<i>Aqua (and) Green No. 5</i>	0.6
<b>E</b>	Sodium Chloride	<i>Sodium Chloride</i>	2.0
<b>F</b>	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

- 1 – Add ingredients from phase A to the water while mixing.
- 2 – Premix water and sodium hydroxide from phase B. Add Caprocine and mix until fully dissolved.
- 3 – Add phase B to phase A under mixing.
- 4 – Add Glucamate VLT and mix very fast until fully dissolved.
- 5 – Add ingredients from phase D under mixing.
- 6 – Add salt and mix until fully dissolved.
- 7 – Adjust pH.

### Properties and stability:

Aspect : Clear, dark blue, syrupy gel  
pH : 5.5 +/- 0.2

Stable during 3 months at 8°C, room T° C, 42°C and cycle (weekly swap 4° C/42° C)

### Challenge test:

Meets criteria A / ISO 11930

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BIO-INGREDIENTS FOR YOUR APPLICATIONS

# Minasolve CapEasy

## Anti-dandruff shampoo

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	41.6
	TEGO Betain F 50	<i>Cocamidopropyl Betaine</i>	4.5
	Texapon NSO UP	<i>Sodium Laureth Sulfate</i>	35.0
	Plantacare 1200 UP	<i>Lauryl Glucoside</i>	3.0
B	<del>Water</del>	<del><i>Aqua</i></del>	<del>10.0</del>
	<del>Sodium Hydroxide (50%)</del>	<del><i>Aqua (and) Sodium Hydroxide</i></del>	<del>0.4</del>
	<b>Caprocine</b>	<b><i>Capryloyl Glycine</i></b>	<b>1.0</b>
C	Glucamate VLT Thickener	<i>PEG-120 Methyl Glucose Trioleate (and) Propanediol</i>	0.7
D	Perfume Orchidée Blanche	<i>Parfum</i>	0.2
	<b>EasySafe 9010</b>	<b><i>Phenoxyethanol (and) Ethylhexylglycerin</i></b>	<b>1.0</b>
	D&C Green #5 (1%)	<i>Aqua (and) Green No. 5</i>	0.6
E	Sodium Chloride	<i>Sodium Chloride</i>	2.0
F	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

- 1 – Add ingredients from phase A to the water while mixing.
- 2 – ~~Premix water and sodium hydroxide from phase B.~~ Add Caprocine and mix until fully dissolved.
- 3 – ~~Add phase B to phase A under mixing.~~
- 4 – Add Glucamate VLT and mix very fast until fully dissolved.
- 5 – Add ingredients from phase D under mixing.
- 6 – Add salt and mix until fully dissolved.
- 7 – Adjust pH.

### Properties and stability:

Aspect : Clear, dark blue, syrupy gel  
pH : 5.5 +/- 0.2

Stable during 3 months at 8°C, room T° C, 42°C and cycle (weekly swap 4° C/42° C)

### Challenge test:

Meets criteria A / ISO 11930

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BIO-INGREDIENTS FOR YOUR APPLICATIONS

# Minasolve CapEasy

## Anti-dandruff shampoo

Phase	Raw material	INCI name	%
<b>A</b>	Water	<i>Aqua</i>	49.7
	TEGO Betain F 50	<i>Cocamidopropyl Betaine</i>	4.5
	Texapon NSO UP	<i>Sodium Laureth Sulfate</i>	35.0
	Plantacare 1200 UP	<i>Lauryl Glucoside</i>	3.0
<b>B</b>	<b>CapEasy (30%)</b>	<b><i>Water (and) Capryloyl Glycine (and) Sodium Bicarbonate</i></b>	<b>3.3</b>
<b>C</b>	Glucamate VLT Thickener	<i>PEG-120 Methyl Glucose Trioleate (and) Propanediol</i>	0.7
<b>D</b>	Perfume Orchidée Blanche	<i>Parfum</i>	0.2
	<b>EasySafe 9010</b> D&C Green #5 (1%)	<b><i>Phenoxyethanol (and) Ethylhexylglycerin</i></b> <i>Aqua (and) Green No. 5</i>	<b>1.0</b> 0.6
<b>E</b>	Sodium Chloride	<i>Sodium Chloride</i>	2.0
<b>F</b>	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

- 1 - Add ingredients from phase A to the water while mixing.
- 2 - Add CapEasy under mixing.
- 3 - Add Glucamate VLT and mix very fast until fully dissolved.
- 5 - Add ingredients from phase D under mixing.
- 6 - Add salt and mix until fully dissolved.
- 7 - Adjust pH.

### Properties and stability:

Aspect : Clear, dark blue, syrupy gel  
pH : 5.5 ± 0.2

Stable during 3 months at room temperature and 42 ° C.

### Challenge test:

Meets criteria A - ISO 11930.

# Caprocine Deodorant

Phase	Raw material	INCI name	%
<b>A</b>	Water	<i>Aqua</i>	63.35
	Carbopol Ultrez 20 Polymer	<i>Acrylates/C10-30 Alkyl Acrylate Crosspolymer</i>	0.20
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.20
<b>B</b>	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.15
<b>C</b>	Water	<i>Aqua</i>	<b>10.00</b>
	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.40
	<b>Caprocine</b>	<b>Capryloyl Glycine</b>	<b>1.00</b>
<b>D</b>	Glycerin	<i>Glycerin</i>	20.00
	<b>A-Leen 5</b>	<b>Pentylene Glycol</b>	<b>3.00</b>
	Schercemol LL	<i>Lauryl Lactate</i>	1.00
<b>E</b>	Perfume Karine	<i>Parfum</i>	0.20
	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs
	Buffer	<i>Aqua (and) Citric Acid (and) Sodium Citrate</i>	0.50



## Manufacturing process:

- 1 – Dust the Carbopol onto the water and leave to hydrate (5 min.).
- 2 – Add the Xanthan gum and mix until fully dispersed.
- 3 – Add sodium hydroxide.
- 4 – Premix water and sodium hydroxide from phase C in a separate beaker. Add Caprocine and mix until fully dissolved.
- 5 – Add phase C to the main beaker under mixing.
- 6 – Add ingredients from phase D under mixing.
- 7 – Add the perfume, adjust the pH and add the buffer.

## Properties and stability:

Aspect : White slightly viscous fluid  
pH : 5.5 +/- 0.5

Stable during 3 months at 8°C, room T° C, 42°C and cycle (weekly swap 4° C/42° C).

## Challenge test:

**Meets criteria A / ISO 11930**

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# Minasolve CapEasy Deodorant

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	63.35
	Carbopol Ultrez 20 Polymer	<i>Acrylates/C10-30 Alkyl Acrylate Crosspolymer</i>	0.20
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.20
B	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.15
C	<del>Water</del>	<del><i>Aqua</i></del>	<del>10.00</del>
	<del>Sodium Hydroxide (50%)</del>	<del><i>Aqua (and) Sodium Hydroxide</i></del>	<del>0.40</del>
	Caprocine	Capryloyl Glycine	1.00
D	Glycerin	<i>Glycerin</i>	20.00
	A-Leen 5	Pentylene Glycol	3.00
	Schercemol LL	<i>Lauryl Lactate</i>	1.00
E	Perfume Karine	<i>Parfum</i>	0.20
	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs
	Buffer	<i>Aqua (and) Citric Acid (and) Sodium Citrate</i>	0.50



## Manufacturing process:

- 1 – Dust the Carbopol onto the water and leave to hydrate (5 min.).
- 2 – Add the Xanthan gum and mix until fully dispersed.
- 3 – Add sodium hydroxide.
- 4 – ~~Premix water and sodium hydroxide from phase C in a separate beaker.~~ Add Caprocine and mix until fully dissolved.
- 5 – ~~Add phase C to the main beaker under mixing.~~
- 6 – Add ingredients from phase D under mixing.
- 7 – Add the perfume, adjust the pH and add the buffer.

## Properties and stability:

Aspect : White slightly viscous fluid  
pH : 5.5 +/- 0.5

Stable during 3 months at 8°C, room T° C, 42°C and cycle (weekly swap 4° C/42° C).

## Challenge test:

Meets criteria A / ISO 11930

**MINASOLVE®**  
BIO-INGREDIENTS FOR YOUR APPLICATIONS

# Minasolve CapEasy Deodorant

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	71.45
	Carbopol Ultrez 20 Polymer	<i>Acrylates/C10-30 Alkyl Acrylate Crosspolymer</i>	0.20
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.20
B	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.15
C	CapEasy (30%)	<i>Water (and) Capryloyl Glycine (and) Sodium Bicarbonate</i>	3.3
D	Glycerin	<i>Glycerin</i>	20.00
	A-Leen 5	<i>Pentylene Glycol</i>	3.00
	Schercemol LL	<i>Lauryl Lactate</i>	1.00
E	Perfume Karine	<i>Parfum</i>	0.20
	Citric Acid (50%)	<i>Aqua (and) Citric Acid</i>	qs
	Buffer	<i>Aqua (and) Citric Acid (and) Sodium Citrate</i>	0.50



## Manufacturing process:

- 1 – Dust the Carbopol onto the water and leave to hydrate (5 min).
- 2 – Add the Xanthan gum and mix until fully dispersed.
- 3 – Add sodium hydroxide to swell the carbopol.
- 4 – **Add CapEasy under mixing.**
- 5 – Add phase D to the main beaker under mixing.
- 6 – Add the perfume, adjust the pH and add the buffer.

## Properties and stability:

Aspect : White slightly viscous fluid  
pH : 5.5 ± 0.5

Stable during 3 months at room temperature and 42 ° C.

## Challenge test:

**Meets criteria A for Bacteria and Candida Albicans and criteria B for Aspergillus Brasiliensis-ISO 11930.**



# Caprocine

## Moisturizing Face lotion

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	60.6
	A-Leen 5	Pentylene Glycol	2.0
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.5
B	Water	<i>Aqua</i>	20.0
	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.8
	Caprocine	Capryloyl Glycine	2.0
C	Emulgade PL 68/50	<i>Cetearyl Glucoside (and) Cetearyl Alcohol</i>	5.0
	Lipex Sheasoft	<i>Butyrospermum Parkii (Shea) Butter</i>	3.0
	Jojoba Oil	<i>Simmondsia Chinensis (Jojoba) Seed Oil</i>	3.0
	Hazelnut Oil	<i>Corylus Avellana (Hazel) Seed Oil</i>	3.0
D	DL- $\alpha$ -Tocopherol (>97%)	<i>Tocopherol</i>	0.1
E	Citric Acid (25%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

1 – Premix A-Leen 5 and Xanthan gum and add to the water, mix at 800 rpm for 25 min or until homogeneous. Heat up to 75-80° C.  
 2 – Premix water and sodium hydroxide in a separate vessel, add Caprocine and mix until fully dissolved.  
 3 – Add phase B to phase A under mixing. Heat up to 75 - 80° C.  
 4 – Prepare phase C and heat up to 75 - 80° C.  
 5 – Add C to A + B under high shear, 3 min with an Ultra Turrax, then mix with a propeller mixer for 30 min at 1000 rpm. Slow down the mixing while cooling down.  
 6 – When T<40° C, add the tocopherol.  
 7 – When room T° C has been reached, adjust pH to 5.0-6.0 with the citric acid solution.

### Properties and stability:

Aspect : Low viscosity ivory fluid  
 pH : 5.5 +/- 0.5

Stable during 3 months at 8° C, room T° C, 42° C and cycle (weekly swap 4° C/42° C).

### Challenge test:

Meets criteria A / ISO 11930

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# Minasolve CapEasy

## Moisturizing Face Lotion

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	60.6
	Pentiol Green+	Pentylene Glycol	2.0
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.5
B	Water	<i>Aqua</i>	20.0
	Sodium Hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.8
	Caprocine	Capryloyl Glycine	2.0
C	Emulgade PL 68/50	<i>Cetearyl Glucoside (and) Cetearyl Alcohol</i>	5.0
	Lipex Sheasoft	<i>Butyrospermum Parkii (Shea) Butter</i>	3.0
	Jojoba Oil	<i>Simmondsia Chinensis (Jojoba) Seed Oil</i>	3.0
	Hazelnut Oil	<i>Corylus Avellana (Hazel) Seed Oil</i>	3.0
D	DL- $\alpha$ -Tocopherol (>97%)	<i>Tocopherol</i>	0.1
E	Citric Acid (25%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

1 – Premix A-Leen 5 and Xanthan gum and add to the water, mix at 800 rpm for 25 min or until homogeneous. Heat up to 75-80° C.  
 2 – ~~Premix water and sodium hydroxide in a separate vessel, add Caprocine and mix until fully dissolved.~~  
 3 – ~~Add phase B to phase A under mixing.~~ Heat up to 75 - 80° C.  
 4 – Prepare phase C and heat up to 75 - 80° C.  
 5 – Add C to A + B under high shear, 3 min with an Ultra Turrax, then mix with a propeller mixer for 30 min at 1000 rpm. Slow down the mixing while cooling down.  
 6 – When T<40° C, add the tocopherol.  
 7 – When room T° C has been reached, adjust pH to 5.0-6.0 with the citric acid solution.

### Properties and stability:

Aspect : Low viscosity ivory fluid  
 pH : 5.5 +/- 0.5

Stable during 3 months at 8° C, room T° C, 42° C and cycle (weekly swap 4° C/42° C).

### Challenge test:

Meets criteria A / ISO 11930

**MINASOLVE**  
 BIO-INGREDIENTS FOR YOUR APPLICATIONS

# Minasolve CapEasy

## Moisturizing Face lotion

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	76.7
	<b>A-Leen 5</b>	<b>Pentylene Glycol</b>	<b>2.0</b>
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.5
B	<b>CapEasy (30%)</b>	<b><i>Water (and) Capryloyl Glycine (and) Sodium Bicarbonate</i></b>	<b>6.7</b>
C	Emulgade PL 68/50	<i>Cetearyl Glucoside (and) Cetearyl Alcohol</i>	5.0
	Lipex Sheasoft	<i>Butyrospermum Parkii (Shea) Butter</i>	3.0
	Jojoba Oil	<i>Simmondsia Chinensis (Jojoba) Seed Oil</i>	3.0
	Hazelnut Oil	<i>Corylus Avellana (Hazel) Seed Oil</i>	3.0
D	DL- $\alpha$ -Tocopherol (>97%)	<i>Tocopherol</i>	0.1
E	Citric Acid (25%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

- 1 - Premix A-Leen 5 and Xanthan Gum and add to the water, mix at 800 rpm for 25 min or until homogeneous.
- 2 - **Add CapEasy under mixing**. Heat up to 75-80 ° C.
- 3 - Prepare phase C and heat up to 75-80 ° C.
- 5 - Add C to A + B under high shear, 3 min with an Ultra Turrax, then mix with a propeller mixer for 30 min at 1000 rpm. Slow down the mixing while cooling down.
- 6 - When T < 40 ° C, add the Tocopherol.
- 7 - When room temperature has been reached, adjust pH to 5.0 – 6.0 with the citric acid solution.

### Challenge test:

Meets criteria A for Bacteria and Candida Albicans and criteria B for Aspergillus Brasiliensis-ISO 11930.

### Properties and stability:

Aspect : Low viscosity ivory fluid

pH : 5.5  $\pm$  0.5

Stable during 3 months at room temperature and 42 °

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# Caprocine

## Anti-Acne Face Cleanser

Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	76.6
	Methocel 40-202 PCG	<i>Hydroxypropyl Methylcellulose</i>	0.2
B	<b>A-Leen 5</b>	<b>Pentylene Glycol</b>	<b>2.0</b>
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.5
C	Sodium hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	0.4
D	<b>Caprocine</b>	<b>Capryloyl Glycine</b>	<b>1</b>
E	Plantacare 1200 UP	<i>Lauryl Glucoside</i>	5.0
	Plantapon ACG HC	<i>Sodium Cocoyl Glutamate</i>	5.0
	Rewoteric AMC	<i>Sodium Cocoamphoacetate</i>	4.0
F	Lamesoft PO 65	<i>Coco-Glucoside (and) Glyceryl Oleate</i>	3.0
	Glycerin	<i>Glycerin</i>	2.0
	Perfume Bamboo & Lemongrass	<i>Parfum</i>	0.2
	D&C Green # 5 (1%)	<i>Aqua (and) Green No. 5</i>	0.1
G	Citric acid (50%)	<i>Aqua (and) Citric Acid</i>	qs



### Manufacturing process:

- 1 – Add the Methocel powder to water at room temperature, under constant stirring. The pH should be kept below 7.5 during phase.
- 2 - Premix A-Leen 5 and Xanthan gum and add to the previous phase. Mix until homogeneous.
- 3 - Add sodium hydroxide under agitation : a clear gel forms as the Methocel hydrates. Continue to agitate for 15-20 min until fully thickened up.
- 4 - Add Caprocine and mix until fully dissolved.
- 5 - Add surfactants of phase D in the given order and mix between additions.
- 6 - Add ingredients of phase E in the given order and mix between additions.
- 7 - Adjust pH.

### Challenge test:

Meets criteria A / 11930 Aspect

### Properties and stability:

: Clear blue gel  
pH : 5.5 -6.0

Stable during 3 months at 8°C, room T° C, 42°C and cycle (weekly swap 4° C/42° C).

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# Minasolve CapEasy

## Anti-Acne Face Cleanser



Phase	Raw material	INCI name	%
A	Water	<i>Aqua</i>	74.7
	Methocel 40-202 PCG	<i>Hydroxypropyl Methylcellulose</i>	0.2
B	<b>A-Leen 5</b>	<b>Pentylene Glycol</b>	<b>2.0</b>
	Xanthan Gum PC	<i>Xanthan Gum</i>	0.5
C	Sodium hydroxide (50%)	<i>Aqua (and) Sodium Hydroxide</i>	qs
D	<b>CapEasy (30%)</b>	<b><i>Water (and) Capryloyl Glycine (and) Sodium Bicarbonate</i></b>	<b>3.3</b>
E	Plantacare 1200 UP	<i>Lauryl Glucoside</i>	5.0
	Plantapon ACG HC	<i>Sodium Cocoyl Glutamate</i>	5.0
	Rewoteric AMC	<i>Sodium Cocoamphoacetate</i>	4.0
F	Lamesoft PO 65	<i>Coco-Glucoside (and) Glycerol Oleate</i>	3.0
	Glycerin	<i>Glycerin</i>	2.0
	Perfume Bamboo & Lemongrass	<i>Parfum</i>	0.2
	D&C Green # 5 (1%)	<i>Aqua (and) Green No. 5</i>	0.1
G	Citric acid (50%)	<i>Aqua (and) Citric Acid</i>	qs

### Manufacturing process:

- 1 - Add the Methocel powder to water at room temperature with constant stirring. The pH should be kept below 7.5 during this phase.
- 2 - Premix A-Leen 5 and Xanthan gum and add to the previous phase. Mix until homogeneous.
- 3 - Add enough sodium hydroxide **to activate the Methocel and allow it to hydrate (pH >8,5)**: a clear gel will form. Continue to agitate for 15-20 min until fully thickened up.
- 4 - Add CapEasy and mix until fully dissolved.
- 5 - Add surfactants of phase E in the given order and mix between additions.
- 6 - Add ingredients of phase F in the given order and mix between additions.
- 7 - Adjust pH.

### Challenge test:

Meets criteria A for *Bacteria and Candida Albicans* and criteria B for *Aspergillus Brasiliensis* ISO 11930.

### Properties and stability:

Aspect : Clear blue gel  
pH : 5.5 -6.0

Stable during 3 months at room temperature and 42 ° C.

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# Minasolve® is an affiliate of The MINAFIN® Group

Created in 2004, The MINAFIN® Group, specializes in fine chemistry for the life sciences and high tech industries. Activities include industrial subcontracting, development of chemical syntheses and industrial scale-up of custom-made processes as well as proprietary products with high added values for the pharmaceutical, cosmetics, agriculture and high tech industries. **Strong synergies exist between all business units :**

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- Driving our enterprises together to **go beyond expectations**



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The above information is accurate to the best of our knowledge. Customers are advised to make their own studies on the usefulness of any ingredient for a particular application. Recommended usage information is only provided as indication, and should not be considered as recommendations to use Minasolve's products in violation of any laws, patents, or official regulations dealing with manufacture, composition, local procedures, product design, or end usage.

Caprocine – MinaSolve™ CapEasy Presentation – March 2019 – V6

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