

## Active ingredients selector book 2009

Inspired by nature – Realized by science

Mibelle Biochemistry designs and develops innovative, high-quality actives based on naturally derived compounds and profound scientific know-how.



# Anti-aging

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# Anti-aging Skin rejuvenation

**Activity** Improvement of skin quality and radiance

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>PhytoCellTec™ Malus Domestica</b>	Plant stem cells for skin stem cells protection	<ul style="list-style-type: none"> <li>• Protection of cell longevity</li> <li>• Plant cell culture technology</li> <li>• Delaying chronological aging</li> </ul>	<ul style="list-style-type: none"> <li>• Real rejuvenation</li> <li>• Revolutionary anti-aging products</li> <li>• Cosmeceuticals</li> </ul>	⊙	Swiss apple stem cells	PE	✓	
<b>Happybelle-PE</b>	Phyto-Endorphins in a double vector system	<ul style="list-style-type: none"> <li>• Well-being</li> <li>• Radiance</li> <li>• Collagen booster</li> <li>• "Neuro-cosmetics"</li> </ul>	<ul style="list-style-type: none"> <li>• SPA treatments</li> <li>• "Happy skin" products</li> </ul>	⊙ <sub>o</sub>	<ul style="list-style-type: none"> <li>• Monk's pepper berries extract (phyto-endorphins)</li> <li>• Vitamins A and E</li> </ul>			
<b>Perfection Peptide P3</b>	Biomimetic peeling to create a perfect skin	<ul style="list-style-type: none"> <li>• Luminosity</li> <li>• Even complexion</li> <li>• Cell renewal</li> </ul>	<ul style="list-style-type: none"> <li>• Cosmeceuticals</li> <li>• Daily peeling</li> <li>• "Radiance" care</li> </ul>	⊙	Tripeptide (Hexanoyl-Arg-Ala-Nle-NH <sub>2</sub> Acetate Salt)	PE	✓	

**Carrier system** ⊙ = Liposome, ⊙<sub>o</sub> = Double vector system, o = Nano-Emulsion, ° = Double Nano-Emulsion

**Preservative** PE = Phenoxyethanol, \* = 2 versions are available

Proven efficacy						Benefits			
Stimulates collagen synthesis	Anti-wrinkles	Improves firmness	Improves smoothness	Improves hydration	Specific tests	Use level in %	Clinically tested on eye contour area	Effect visible after only 1 month	Preservative-free
	✓				<ul style="list-style-type: none"> <li>• Protects stem cells against UV damage</li> <li>• Up-regulates specific genes involved in delay of senescence, anti-oxidation and DNA damage correction</li> </ul>	2.0 – 5.0	✓	✓	
✓		✓			Increases the feeling of well-being (consumer test)	1.0 – 2.0	✓	✓	✓
	✓		✓	✓	<ul style="list-style-type: none"> <li>• Increases the turn-over of stratum corneum</li> <li>• Smooths the skin micro-relief (laser profilometry)</li> <li>• Improves the skin cohesion (scanning electron microscopy)</li> </ul>	0.5 – 3.0	✓	✓	

Proven efficacy ■ in vitro test ■ clinical study

# Anti-aging Experts

**Activity** Focus on a specific corrective action

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>Lipobelle Soyaglycone</b>	Lift it up!	<ul style="list-style-type: none"> <li>• Density</li> <li>• Anti-gravity</li> <li>• Lifting effect</li> <li>• Collagen booster</li> </ul>	<ul style="list-style-type: none"> <li>• Re-plumping</li> <li>• Multi-dimensional anti-aging</li> </ul>	⊙	Soy isoflavone aglycone (genistein)			
<b>Ameliiox</b>	To fade away expression lines	<ul style="list-style-type: none"> <li>• Wrinkle reduction</li> <li>• Immediate smoothing</li> </ul>	<ul style="list-style-type: none"> <li>• Cosmeceuticals</li> <li>• Anti-glycation</li> </ul>	⊙	<ul style="list-style-type: none"> <li>• Carnosine</li> <li>• Silymarin</li> <li>• Natural vitamin E</li> </ul>	PE/no*	✓	
<b>AstraForce</b>	Anti-aging especially for blemished skin	<ul style="list-style-type: none"> <li>• Both anti-blemishes and anti-aging</li> <li>• Clarity</li> </ul>	<ul style="list-style-type: none"> <li>• City products</li> <li>• Skin texture enhancers</li> <li>• Combination/oily skin</li> </ul>	⊙	Astragalus membranaceus root extract	PE	✓	

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Proven efficacy							Benefits		
Improves regeneration	Anti-wrinkles	Improves firmness	Improves skin thickness	Improves smoothness	Improves hydration	Specific tests	Use level in %	Clinically tested on eye contour area	Preservative-free
	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Genistein stimulates collagen IV production</li> <li>• The liposomal form increases the skin penetration of genistein</li> <li>• Diminishes skin laxness and ptosis</li> <li>• Makes the skin appear 5 years younger</li> </ul>	1.0 – 5.0	✓	✓
	✓	✓		✓		<ul style="list-style-type: none"> <li>• Reduces wrinkles both on crow's feet and forehead</li> <li>• Visibly reduces lines and wrinkles (consumer test)</li> </ul>	1.0 – 5.0	✓	✓
✓		✓		✓	✓	<ul style="list-style-type: none"> <li>• Inhibits lipase activity</li> <li>• Reduces blemished skin signs</li> </ul>	0.5 – 2.0		

Proven efficacy ■ in vitro test ■ clinical study

# Anti-aging Antioxidant/Energizing

**Activity** Revitalizing and nourishing

Name	Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free
<b>GSP-T</b>	Powerful radical scavenger	<ul style="list-style-type: none"> <li>• Broad protection against daily oxidative stress</li> <li>• Stable combination of water- and oil-soluble antioxidants</li> </ul>	<ul style="list-style-type: none"> <li>• Cosmeceuticals</li> <li>• Protection against UV damage</li> </ul>		<ul style="list-style-type: none"> <li>• Swiss grape seed extract (procyanidins)</li> <li>• Natural vitamin E</li> </ul>		
<b>NanoVit nc/oA</b>	Bioactive phyto-omegas 3,6,9+7	Healthier-looking skin	<ul style="list-style-type: none"> <li>• Cell regeneration</li> <li>• Protection against UV damage</li> <li>• Pre/after sun products</li> </ul>	○	<ul style="list-style-type: none"> <li>• Sea buckthorn pulp oil</li> <li>• Natural vitamin E</li> </ul>	Sodium benzoate /no*	✓
<b>Nano-Lipobelle DN CoQ10 oA</b>	Supersaturated CoQ10 double nano-emulsion	<ul style="list-style-type: none"> <li>• Vitality</li> <li>• Collagen booster</li> <li>• Mitochondrial cosmetics</li> </ul>	<ul style="list-style-type: none"> <li>• Metabolic activation</li> <li>• Photo-aging prevention</li> </ul>	○○	<ul style="list-style-type: none"> <li>• Coenzyme Q10 7%</li> <li>• Natural vitamin E 0.4%</li> <li>• Vitamin C 0.2%</li> </ul>	Benzoic acid	✓
<b>Nano-Lipobelle H-AECL</b>	The power snack for skin	<ul style="list-style-type: none"> <li>• Nutrition</li> <li>• Strengthening of skin barrier</li> </ul>	Sensitive skin	○	<ul style="list-style-type: none"> <li>• Vitamins (A, E, C) – ester form</li> <li>• Borage oil (rich in gamma linoleic acid)</li> </ul>		
<b>NanoMax</b>	High performing antioxidant blend	Antioxidant shield	<ul style="list-style-type: none"> <li>• City products</li> <li>• Daily care</li> </ul>	○○	<ul style="list-style-type: none"> <li>• Coenzyme Q10 0.5%</li> <li>• Natural vitamin E 1%</li> <li>• Vitamin C 1%</li> </ul>		

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**Preservative** PE = Phenoxyethanol, \* = 2 versions are available



Proven efficacy				Benefits			
Stimulates collagen synthesis	Inhibits lipid peroxidation	Increases cell renewal	Specific tests	Use level in %	100% natural	Preservative-free	Ecocert approved
	✓		<ul style="list-style-type: none"> <li>• Reduces collagen glycation</li> <li>• Immediate anti-redness effect</li> </ul>	0.5 – 2.5		✓	
	✓	✓		1.0 – 5.0	✓	✓	✓
✓			Protects mitochondrial DNA	1.0 – 5.0			
				1.0 – 5.0		✓	
	✓			1.0 – 5.0		✓	

Proven efficacy ■ in vitro test ■ clinical study

# Hydration/Soothing

**Activity** Actives which promote the homeostasis of the skin and bring comfort

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>AquaCacteen</b>	Designed to soothe and hydrate	<ul style="list-style-type: none"> <li>• Calming</li> <li>• Skin resistance booster</li> </ul>	<ul style="list-style-type: none"> <li>• Sensitive skin</li> <li>• Baby-care</li> <li>• After-shave products</li> </ul>		Opuntia ficus-indica stem extract	PE/no*	✓	
<b>Trimoist KMF</b>	24h hydration and protection	<ul style="list-style-type: none"> <li>• 3-step moisturizer</li> <li>• Anti-aging</li> </ul>	<ul style="list-style-type: none"> <li>• Sensitive skin</li> <li>• Repair products</li> <li>• Body care</li> </ul>		<ul style="list-style-type: none"> <li>• CM-Glucan</li> <li>• Lamellar lipids</li> <li>• Humectants</li> <li>• Carnosine</li> </ul>		✓	
<b>NanoCacao</b>	Deep comfort and relaxation	<ul style="list-style-type: none"> <li>• Relaxation</li> <li>• Good feeling</li> <li>• Oil-soluble active</li> </ul>	<ul style="list-style-type: none"> <li>• Anti-stress formulations</li> <li>• Color cosmetics</li> <li>• Wellness/SPA products</li> </ul>	○	Cocoa bean lipophilic extract	PE/no*	✓	
<b>Lipobelle Glacier oA</b>	24h refreshing hydration with Swiss glacier water	<ul style="list-style-type: none"> <li>• Refreshment</li> <li>• Long-lasting hydration</li> </ul>	<ul style="list-style-type: none"> <li>• Splashes</li> <li>• SPA treatments</li> <li>• Men's care</li> </ul>	⊙	Swiss glacier water		✓	
<b>Poly-Fructol</b>	Adds value to all bath and hair products	<ul style="list-style-type: none"> <li>• Instant hydration</li> <li>• Soft and fresh skin/hair</li> </ul>	<ul style="list-style-type: none"> <li>• Body care</li> <li>• Hair care/styling</li> </ul>	⊙	Polymer of fructose (inulin)	PE		
<b>Femitim</b>	Especially for feminine hygiene	<ul style="list-style-type: none"> <li>• Gentleness</li> <li>• Well-feeling</li> </ul>	<ul style="list-style-type: none"> <li>• Intimate hygiene</li> <li>• Wipes products</li> </ul>		Monk's pepper berries extract (phyto-endorphins)			

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Proven efficacy						
Anti-irritation activity	Improves hydration	Reduces redness	Improves smoothness	Improves firmness	Specific tests	Use level in %
✓	✓	✓		✓	Protects against UV damage	0.5 – 2.0
	✓		✓	✓	<ul style="list-style-type: none"> <li>Protects against detergents</li> <li>Increases well-being and skin smoothness (consumer test)</li> </ul>	1.0 – 5.0
			✓		Slows down muscle contraction (reversible effect)	3.0 – 5.0
	✓				<ul style="list-style-type: none"> <li>Protects cells against heat stress</li> <li>Gives a refreshing feeling (consumer test)</li> </ul>	1.0 – 5.0
	✓					0.1 – 5.0
					Increases well-being feeling (consumer test)	0.5 – 3.0

Benefits			
Suitable for rinse-off products	Ideal for sun care	Preservative-free	Eco-cert approved
✓	✓	✓	✓
	✓	✓	
		✓	
✓	✓	✓	
✓			
✓		✓	✓

Proven efficacy ■ in vitro test ■ clinical study

# Active protection

**Activity** Smart protection against external and internal stress factors (UV, pollution, toxins, stress)

Name	Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free
<b>Detoxophane</b>	Activates the skin's detoxification system	<ul style="list-style-type: none"> <li>• Protection against pollutants</li> <li>• Photo-aging prevention</li> </ul>	<ul style="list-style-type: none"> <li>• City products</li> <li>• Protection against environmental stress</li> <li>• Foundation</li> </ul>	⊙	Swiss garden cress sprout extract (sulforaphane)	PE/no*	✓
<b>Helioguard 365</b>	Natural UVA-screening active to protect against photo-aging	<ul style="list-style-type: none"> <li>• Daily UVA-protection</li> <li>• DNA protection</li> </ul>	<ul style="list-style-type: none"> <li>• Face care</li> <li>• Foundation</li> </ul>	⊙	Mycosporine-like amino acids (MAA)	PE	
<b>MelanoBronze</b>	Natural tanning activator	Enhancement of natural skin tone	<ul style="list-style-type: none"> <li>• Pre-sun care</li> <li>• Sun studio products</li> <li>• Suntan booster</li> </ul>		<ul style="list-style-type: none"> <li>• Monk's pepper berries extract (phyto-endorphins)</li> <li>• Acetyl tyrosine</li> </ul>		
<b>CM-Glucan</b>	Stimulates the skin's immune system	<ul style="list-style-type: none"> <li>• Protection</li> <li>• Regeneration</li> </ul>	<ul style="list-style-type: none"> <li>• Skin repairing</li> <li>• Sensitive skin</li> </ul>		Sodium carboxymethyl beta-glucan from baker's yeast	no/PE*	✓
<b>EpiCalmin TCM</b>	Superdefense by Traditional Chinese Medicine	<ul style="list-style-type: none"> <li>• Skin self-protection booster</li> <li>• Both soothing and anti-aging</li> </ul>	<ul style="list-style-type: none"> <li>• Sensitive skin</li> <li>• Wellness/SPA products</li> <li>• TCM cosmetics</li> </ul>		<ul style="list-style-type: none"> <li>• Lonicera japonica flower extract</li> <li>• Xanthium sibiricum fruit extract</li> <li>• Cyperus rotundus root extract</li> </ul>	Sodium benzoate	✓

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Proven efficacy								
Inhibits lipid peroxidation	Antioxidant activity	Anti-wrinkles	Improves firmness	Improves smoothness	Improves hydration	Improves cell renewal	Specific tests	Use level in %
							<ul style="list-style-type: none"> <li>Protects against strong oxidizing components</li> <li>Stimulates the expression of natural antioxidants</li> </ul>	0.5 – 3.0
✓	✓	✓	✓	✓	✓		<ul style="list-style-type: none"> <li>Reduces UV-induced DNA damage</li> <li>Boosts SPF</li> </ul>	1.0 – 5.0
							<ul style="list-style-type: none"> <li>Stimulates melanin synthesis</li> <li>Increases skin tanning with and without sun</li> </ul>	1.0 – 5.0
	✓	✓	✓		✓	✓	<ul style="list-style-type: none"> <li>Protects against cell damage induced by UVA</li> <li>Limits TEWL reduction after skin damage</li> </ul>	0.5 – 5.0
					✓		<ul style="list-style-type: none"> <li>Stimulates the skin's defense mechanisms against oxidative stress, inflammation and collagen degradation</li> <li>Reduces redness</li> </ul>	2.0 – 5.0

Proven efficacy ■ in vitro test ■ clinical study

Benefits			
Skin self-defense booster	Clinically tested on eye contour area	Preservative-free	Ecocert approved
✓			
	✓		
✓		✓	
✓	✓		
✓			✓

# Whitening

## Activity Skin lightening

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>NanoWhite</b>	Triple activity for skin brightening	<ul style="list-style-type: none"> <li>• Even complexion</li> <li>• Complete action on tyrosinase inhibition</li> </ul>	Lightening for every day	⊙	<ul style="list-style-type: none"> <li>• Natural arbutin</li> <li>• Glutathione</li> <li>• Vitamin C</li> </ul>			
<b>SulforaWhite</b>	Phyto agent for visible whitening	<ul style="list-style-type: none"> <li>• Exceptional brightening benefits</li> <li>• Natural whitening active ingredient</li> <li>• Reduction of discoloration</li> </ul>	<ul style="list-style-type: none"> <li>• Anti-aging with age spot correction</li> <li>• Whitening treatments</li> </ul>	⊙	Swiss garden cress sprout extract (sulforaphane)	PE/no*	✓	

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**Preservative** PE = Phenoxyethanol, \* = 2 versions are available

Proven efficacy						Benefits	
Inhibits melanin synthesis	Inhibits $\alpha$ -MSH activity	Protects against strong oxidizing components	Lightens the skin	Specific tests	Use level in %	Effect visible after only 1 month	Preservative-free
✓				Inhibits tyrosinase activity and activation	2.0 – 5.0		✓
✓	✓	✓	✓	Efficient on both Caucasian and Asian skin type	2.0 – 5.0	✓	✓

Proven efficacy ■ in vitro test ■ clinical study

# Hair

**Activity** Actives which protect, take care and beautify hair

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>GSP-T</b>	Grape seed polyphenols for maximum hair protection	<ul style="list-style-type: none"> <li>• Powerful radical scavenger</li> <li>• Stable combination of water- and oil-soluble antioxidants</li> <li>• Color protection</li> </ul>	All hair care products		<ul style="list-style-type: none"> <li>• Swiss grape seed extract (procyanidins)</li> <li>• Natural vitamin E</li> </ul>			
<b>Nano-Lipobelle t-UV</b>	Cationic nano-emulsion of UV-filters	<ul style="list-style-type: none"> <li>• Protection against daily environmental stress</li> <li>• Sun protection</li> </ul>	<ul style="list-style-type: none"> <li>• Outdoor products</li> <li>• "Coloured hair" products</li> </ul>	○	UVA and UVB filters			
<b>Nano-Lipobelle DN CoQ10 oA</b>	Hair growth with proven efficacy	<ul style="list-style-type: none"> <li>• Hair growth stimulation</li> <li>• Strength and vitality</li> <li>• Anti-aging for scalp and hair</li> </ul>	<ul style="list-style-type: none"> <li>• Metabolic activation</li> <li>• SPA treatments</li> <li>• Anti-aging products</li> </ul>	◌◌	<ul style="list-style-type: none"> <li>• Coenzyme Q10</li> <li>• Natural vitamin E</li> <li>• Vitamin C</li> </ul>	Benzoic acid	✓	
<b>Lipobelle S100/PA</b>	Cationic liposomal panthenol for hydration	<ul style="list-style-type: none"> <li>• Repair</li> <li>• Hair shine</li> <li>• Makes combing easier</li> </ul>	<ul style="list-style-type: none"> <li>• Repair</li> <li>• Daily shampoos, conditioners, sprays</li> </ul>	⊙	D-panthenol			

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Proven efficacy						
Increases proliferation of human follicle dermal papilla	Stimulates hair growth	Protects against oxidative stress	Protects against coloured hair fading	Anti-irritant effect	Specific tests	Use level in %
		✓	✓	✓	Protects hair proteins against detergents, UV, hair-dryer and sea water	0.5 – 2.5
					Increases the delivery of UV filters	1.0 – 5.0
✓	✓				Protects mitochondrial DNA	1.0 – 5.0
						0.2 – 2.0

Benefits		
Suitable for rinse-off products	Transparent aspect	Preservative-free
✓	✓	✓
✓	✓	✓
	✓	
✓	✓	✓

# Anti-cellulite/Slimming

**Activity** Slimming, firming and re-shaping

Name		Characteristics						
Active ingredient	Definition	Looking for...	Ideas of application	Carrier system	Active components	Preservative	Alcohol-free	
<b>AmaraShape</b>	High performance in body shaping	<ul style="list-style-type: none"> <li>• Body contouring</li> <li>• Thermogenic activity</li> <li>• Lipolytic activity</li> </ul>	<ul style="list-style-type: none"> <li>• Fitness body care</li> <li>• Re-sculpting body care</li> <li>• SPA treatments</li> </ul>	⊙	<ul style="list-style-type: none"> <li>• Caffeine</li> <li>• Bitter orange extract (synephrine)</li> </ul>			
<b>Iso-Slim Complex</b>	Pro slimming – anti cellulite	<ul style="list-style-type: none"> <li>• Anti-orange peel</li> <li>• Multi-targeted slimming activity</li> <li>• Lipid breakdown trigger</li> </ul>	<ul style="list-style-type: none"> <li>• SPA treatments</li> <li>• Refining skin body care</li> <li>• Anti-aging</li> </ul>		<ul style="list-style-type: none"> <li>• Soy isoflavone aglycone (genistein)</li> <li>• Caffeine</li> <li>• Carnitine</li> <li>• Spirulina platensis algae extract</li> </ul>	PE		

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**Preservative** PE = Phenoxyethanol, \* = 2 versions are available

Proven efficacy				Benefits	
Improves firmness	Improves smoothness	Specific tests	Use level in %	Effective after only 6 weeks	Preservative-free
✓	✓	Abdominal girth reduction: - 2.5 cm	1.0 - 3.0	✓	✓
	✓	<ul style="list-style-type: none"> <li>• Genistein inhibits the adipogenesis process</li> <li>• Genistein stimulates collagen IV production</li> <li>• Degree of cellulite: -37% (clinical score)</li> <li>• Thigh girth: -3.8 cm</li> <li>• Elasticity: +57%</li> </ul>	1.0 - 5.0	✓	

Proven efficacy ■ in vitro test ■ clinical study

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