



Bioskinup Contour

Global eye care treatment: dark circles and puffiness

Bioskinup Contour is composed by concentrated extracts of *Pfaffia* sp. (Pfaffia), *Ptychopetalum olacoides* (Marapuama), and *Lilium candidum* (White lily), a synergic association standardized in saponins and flavonoids

- Triple action: anti-inflammatory, anti-edematous and venous protective
- The most complete and scientifically based dermocosmetic active developed for the treatment of periorbital imperfections

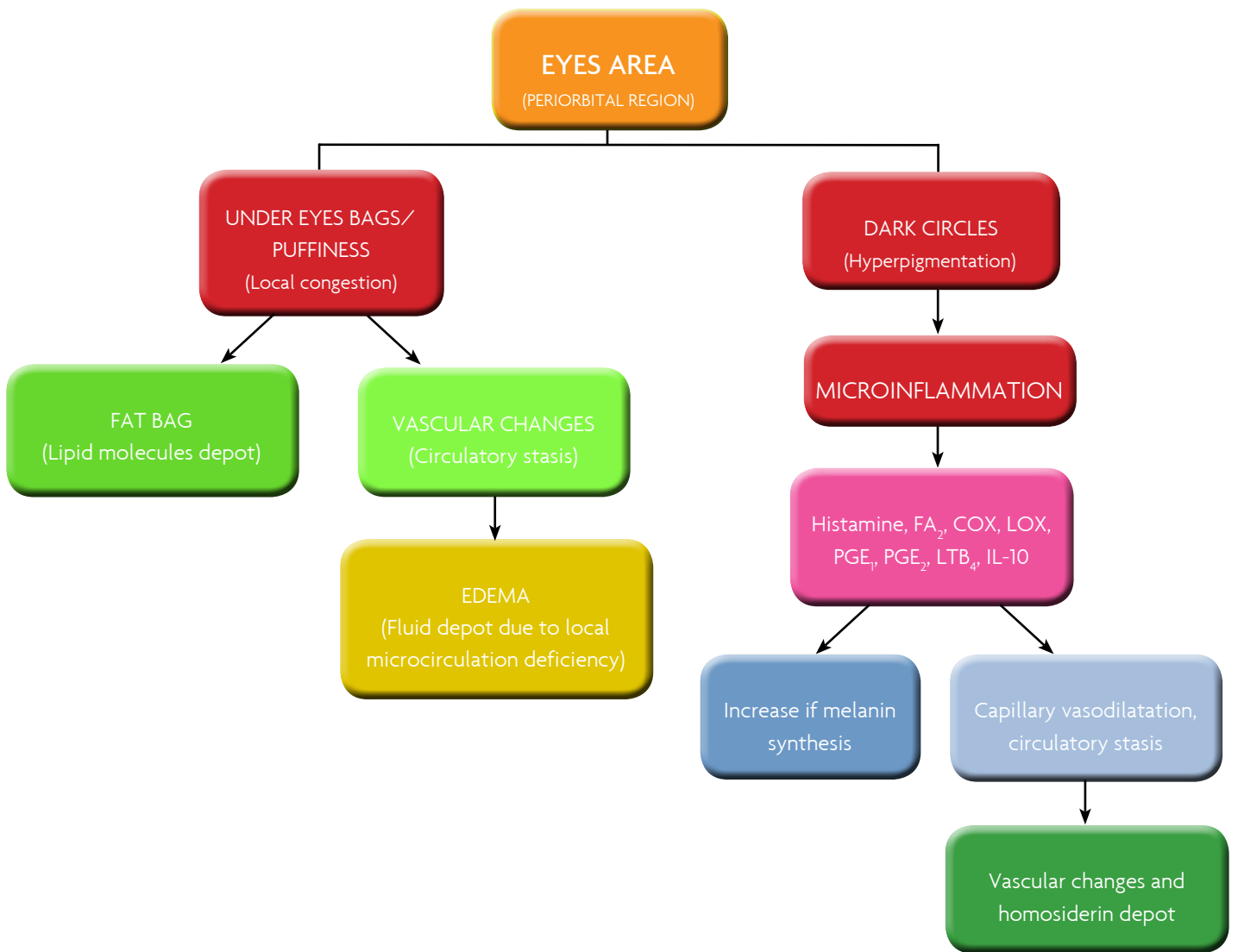


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Science in Nature



Schematic representing the three main morpho-anatomical changes in periorbital region (area around the eyes)



Safety assessment (Evaluation of the cytotoxic potential)

Non cytotoxic.



Efficacy tests

In vitro

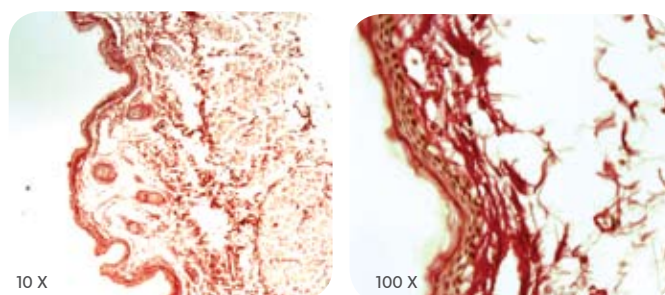
<i>In vitro</i> TESTS	MECHANISMS OF ACTION	EFFECTS ON THE SKIN
Anti-inflammatory Effect (keratinocytes culture)	↓ Phospholipase A2 (-42,56%)	<ul style="list-style-type: none"> • ↓ of the fluid depot by draining effect: decrease of edema and periorbital hyperpigmentation
	↓ Ciclooxygenase-2 (-38,72%)	
	↓ Lypooxygenase (-41,28%)	
	↓ Prostaglandine E2 (-71,31%)	
	↓ Leukotrien B4 (-74,90%)	
↑ Histamine (-55,62%)		
Lipolytic Effect (Adipocytes culture)	↑ Free Fatty acids (+38,59%)	<ul style="list-style-type: none"> • ↓ of under eyes bags: lipolytic effect
	↑ IL-1 α (+97,82%)	
	↑ IL-6 (+14,63%)	
ECM Stimulating Effect (fibroblasts culture)	↑ Collagen(+164,33%)	<ul style="list-style-type: none"> • Vascular wall strenghtening and tissues repair: anti wrinkle effect
	↑ Elastin (+17,29%)	
	↑ TGF- β (+65,08%)	
	↑ GM-CSF (+35,84%)	
Antioxidant Effect (keratinocytes culture)	↑ Catalase (+310,16%)	<ul style="list-style-type: none"> • ↓ if oxidative stress • ↑ of skin natural antioxidative defense system
	↑ SOD (+170,83%)	
	↓ Radical DPPH (99,7%)	

↓ decrease or ↑ increase Note: respective or percentage for each assessed parameter are related to a 5mg/mL of BIOSKINUP CONTOUR applied to cell cultures.

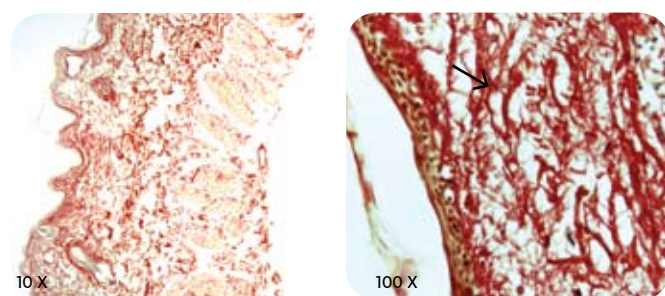
Ex vivo

Histological analysis

Histological Human skin Sections Control



Human skin tissue in the presence of BIOSKINUP CONTOUR (5mg/mL)



BIOSKINUP CONTOUR promotes a dermal redensifying effect through the increase of collagen, improving firming effect and reducing wrinkles.



Clinical assessment

A face fluid serum with 5% BIOSKINUP CONTOUR was applied on the dry skin, previously cleaned, twice a day during 28 days of use.

Evaluation of skin and ocular acceptability

The product has presented a good skin and ocular acceptability.

Evaluation of cosmetic appreciability

Evaluated Parameters	Volunteers Satisfaction (%)	Researcher Satisfaction (%)
Puffiness eyelid reduction	54,17	58,34
Eyes bags reduction	66,67	66,67
Thinned face with a less swollen aspect	70,84	54,17
Firmness of skin face	70,84	91,67
Wrnkles around the eyes reduction	50	66,67
Decrease in intensity of dark circle tone	81	33,34
Decrease in dark circles size	76	29,17

Evaluation of volunteers and researchers satisfaction related to cosmetic appreciability of BIOSKINUP CONTOUR ($p < 0,05$).

Visual (image) evaluation of the puffiness improvement of periorbital region before and after product application (D1/T0, and D28):



BEFORE (D1/T0)



AFTER (D28)

Instrumental evaluation of dark circles improvement (COLORIMETRY - Evaluation of the whitening effect)

There was a significant decrease of dark circles around the eyes, which leads to the conclusion that the blood circulation flowing out from the blood vessels gradually decreases ($ITA^\circ = 122\%$)

Instrumental evaluation of microcirculation improvement and draining effect by doppler-power ultrasound

BIOSKINUP CONTOUR has presented a microcirculation activation effect by increasing its activity comparing to positive control and baseline condition.



Applications and technical aspects

Technical aspects

- It does not present any significant technical incompatibilities;
- It can be incorporated to different types of emulsions, gels, cream gels, lotions, and thickening polymers, regardless of their ionic charge;
- It can be cold added in the final phase of the formulation;
- Suggested pH: 4.5 to 6.0 (cosmetic pH, especially for products indicated to be applied around the eyes).

BIOSKINUP CONTOUR is indicated for application in cosmetic products, for eye dark circles and puffiness improvement.

The clinical study was performed with an application of a face serum with 5% **BIOSKINUP CONTOUR**. Based in the excellent clinical results that could prove its powerful cutaneous permeation obtained through ultrasound we can concluded that the product tend to keep its excellent activity in lower concentrations than that one used in the clinical studies, especially from 2 to 5 %.

Suggested concentration: From 2 to 5% (w/w).

PATENT PENDING

INCI name:	CAS NUMBER	EINECS/ELINCS
Water	7732-18-5	231-791-2
Butylene Glycol	107-88-0	203-529-7
PEG-40 Hydrogenated Castor Oil	61788-85-0	Polymer Exempt
Ptychopetalum Olacoides Bark/Stem Extract	84929-46-4	284-529-4
Pfaffia paniculata Root Extract	999999-99-4	310-127-6
Lilium Candidum Flower Extract	84776-67-0	283-996-1

Also available:

BIOSKINUP CONTOUR 3R	CAS NUMBER	EINECS/ELINCS
Water	7732-18-5	231-791-2 (I)
Glycerin	56-81-5	200-289-5 (I)
Caprylyl/ Capryl Glucoside	68515-73-1	–
Pfaffia Paniculata Root Extract	999999-99-4	310-127-6 (I)
Ptychopetalum Olacoides Bark/Stem Extract	84929-46-4	284-529-4 (I)
Lilium Candidum Flower Extract	84776-67-0	283-996-1 (I)



Our philosophy is to practice the 3R's concepts to take care of humanity, environment and scientific progress.






CHEMYUNION



Printing and paper specifications/certifications:

 100% recycled paper



The FSC label is the guarantee that this product was printed in FSC paper.

CHEMYUNION QUÍMICA LTDA.

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