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www.integrityingredientscorp.com • info@integrityingredientscorp.com  
(310) 782-0282

# KAFFE BUENO

## KAFFAGE® BROCHURE



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# KAFFAGE®

Upcycled Multi-Functional Active Biopolymer Extract

PRODUCT NAME	PRODUCT CODES	INCI NAME	FORM
KAFFAGE®	03001-1	Coffea Arabica Seed Extract	Powder
KAFFAGE-D®	03001-2	Glycerine, Coffea Arabica Seed Extract	Liquid
KAFFAGE-B®	03002-1	Coffea Arabica Seed Extract	Powder
KAFFAGE-BD®	03002-2	Glycerine, Coffea Arabica Seed Extract	Liquid



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## 01. PRODUCT DESCRIPTION

KAFFAGE® is an innovative amphiphilic biopolymer derived from upcycled defatted coffee by-products. Its unique composition, enriched with polyphenolic groups, provides unparalleled multi-functionality and exceptional performance.

With its abundant hydroxycinnamic acids, KAFFAGE® offers remarkable antioxidant activity and effectively prevents UV-induced glycation in human cells<sup>1</sup>. Moreover, it acts as a natural SPF booster by absorbing UV light, including UV-B rays known to cause sunburn<sup>2</sup>.

The natural brown color of KAFFAGE® and the yellow to brown shade of KAFFAGE-B™ contribute to their ability to mimic various skin tones, reducing the reliance on conventional color compounds like iron oxides.

Furthermore, KAFFAGE® exhibits high water solubility along with emulsifying and thickening properties, facilitating effortless formulation. Its inherent antimicrobial properties also reduce the necessity for additional preservatives<sup>1,3</sup>.



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## 03. RECOMMENDED APPLICATIONS

- Skin Care
- BB/CC Creams
- Body Care
- Foundations
- Self-tanners

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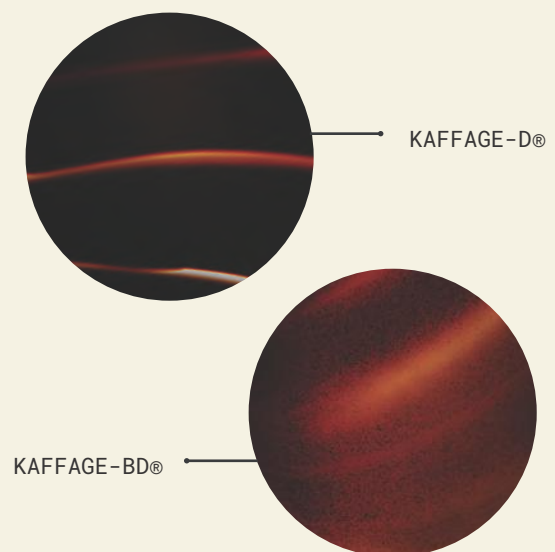
## 02. BENEFITS

### Personal Care Benefits:

- Antiglication<sup>1</sup>
- Antioxidant
- Skin Microbiome Friendly
- SPF Booster<sup>2</sup>

### Formulation Benefits:

- Emulsifying
- Highly Water Soluble
- Mimics Wide Range of Skin Tones
- Preservative Boosting
- Thickening Effect



# SPECIFICATIONS

PARAMETER	KAFFAGE® 03001-1	KAFFAGE-D® 03001-2	KAFFAGE-B® 03002-1	KAFFAGE-BD® 03002-2
COLOUR INTENSITY (0.1% ABSORBANCE @610 NM)	0.40-0.7	0.2-0.3	0.1-0.35	0.05-0.15
COLOUR BY CIE LAB (L VALUE)	35-40	15-25	45-55	20-30
TINCTORIAL POWER (0.1% ABSORBANCE @560 NM)	0.5-0.8	0.2-0.3	0.1-0.35	0.05-0.15
TOTAL PHENOLICS CONTENT (GAL- LIC ACID EQUIVALENTS)	>40000 mg/kg	>8000 mg/kg	>20000 mg/kg	>4000 mg/kg
pH (1% SOLUTION IN WATER)	7-9	7-9	7-9	7-9
LOSS ON DRYING	<5%	<5%	<5%	<5%
DENSITY	0.55-0.65 g/ml	1.0-1.15 g/ml	0.55-0.65 g/ml	1.0-1.15 g/ml
TOTAL PLATE COUNT 30°C	≤ 10	≤ 10	≤ 10	≤ 10
YEASTS AND MOULDS	≤ 10	≤ 10	≤ 10	≤ 10
ESCHERICHIA COLI	ND	ND	ND	ND
STAPHYLOCOCCUS AUREUS	ND	ND	ND	ND

## SOLUBILITY (% G PRODUCT/G SOLVENT):

WATER	ETHANOL	GLYCEROL
100%	40%	70%

**ACTIVE CONTENT (%):** TBD

**RECOMMENDED DOSAGE (%):** 1 - 6%



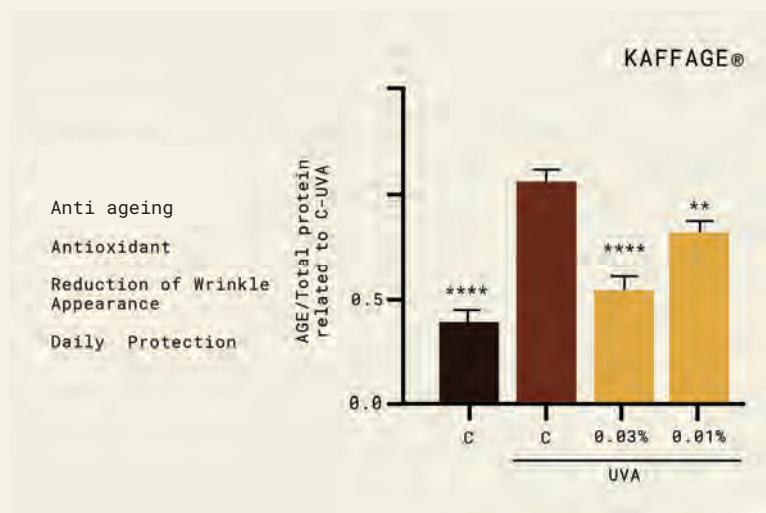


## EFFICACY DATA

### SKIN CARE - IN VITRO

To test the detoxifying and protective effects of KAFFAGE®, human keratinocytes (HaCaT) were exposed to UVA-light and the formed advanced glycation end-products (AGEs) were measured. These AGEs are formed under oxidative stress and have been linked to several chronic diseases, such as diabetes. Thus, inhibition of glycation has a preventive potential. The cells were for 24 hrs with 0.01% and 0.03% KAFFAGE®, this was enough to prevent damaging effects of UVA exposure (20 J/cm<sup>2</sup>) for 3.5 hrs. After 3 hrs exposure, cells treated with 0.03% and 0.01% KAFFAGE®, respectively 49.6% and 28.3%, than the control. The amount of AGEs in the 0.03% KAFFAGE® treated cells was comparable to the amount in unexposed cells.

The treatment with 0.01% and 0.03% KAFFAGE® for 24 hrs, significantly reduced the formation of AGEs under UVA exposure.



**FIGURE 11:** Advanced glycation end-products formed per total protein in HaCaT-cells after UVA exposure. Test conditions: no treatment (C), 0.03% KAFFAGE®, 0.01% KAFFAGE®.

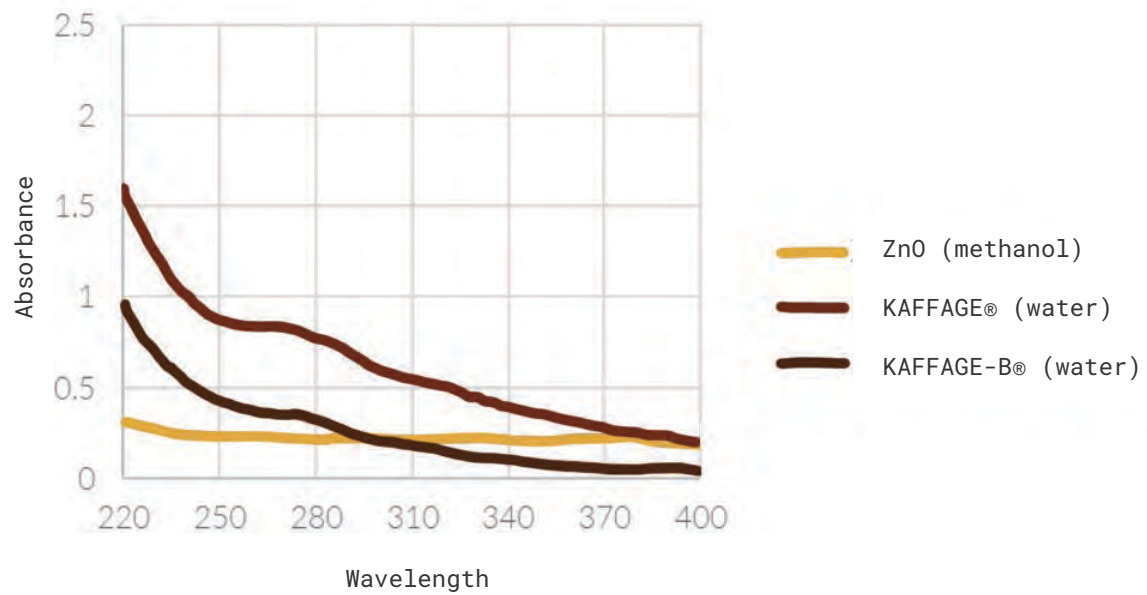
#### CLAIMS:

By preventing UVA-induced glycation KAFFAGE helps preserve collagen and elastane.

#### MODE OF ACTION:

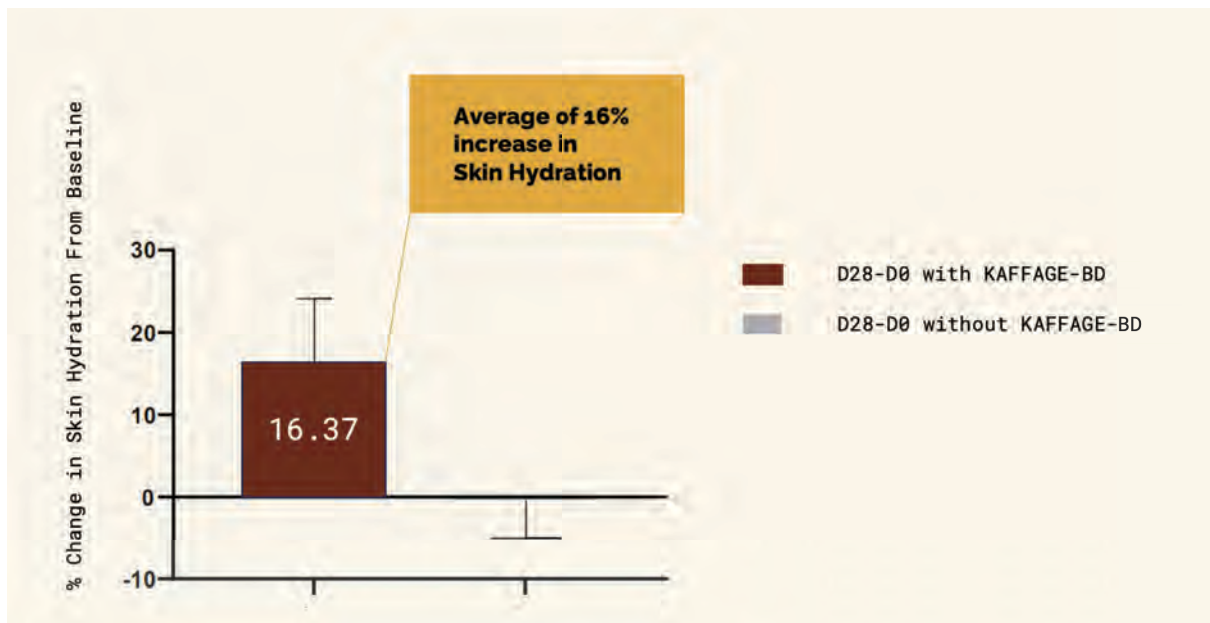
KAFFAGE® is an antioxidant that absorbs UV-light. This reduces the impact of UV-radiation on cells and its sugars and proteins, resulting in less formation of AGEs. The ability to absorb UV-light, makes KAFFAGE® a natural sun blocker. KAFFAGE® showed higher absorbance in all the UV-regions than the mineral sun blocker zinc oxide (ZnO), this was less in the UVA-region (315-380 nm) and more in the UVB-region (280-315 nm). KAFFAGE-B® did not absorb notable UVA and UVB radiation.

## ABSORBANCE IN THE UV-REGION



**FIGURE 12:** Absorption in the UV-region at 100 µg/mL for KAFFAGE®, KAFFAGE-B® and ZnO.

## SKIN CARE - IN VIVO



**FIGURE 13:** For KAFFAGE-BD®, the sample size for testing included 30 individuals using a formula with KAFFAGE-BD® and 20 without it. The testing method involved performing five repeated measurements on the cheek of each volunteer at various time points. The results demonstrated that after 28 days of use, the formula containing 3% KAFFAGE-BD® showed an average of 16% increase in skin hydration compared to a BB cream without KAFFAGE-BD®.

**VISIA-CR IMAGING  
IMPROVEMENT IN APPEARANCE OF WRINKLES IN OCULAR  
REGION**



**FIGURE 14**



**FIGURE 15**

**CLAIMS:**

KAFFAGE® improves fine lines, enhances hydration of the skin by 16%, and allows for a bettered appearance of hyperpigmentation.



## POST USE CONSUMER SATISFACTION SURVEY BB CREAM WITH KAFFAGE-BD®

90%

of users felt their skin was more radiant, with a healthy-looking glow.

93%

of users felt their skin was more moisturised.

97%

agreed the treatment nourished their skin.





bb cream

Clean Skin Cream  
for Healthy Ageing  
Contains Upcycled  
Coffee Active

active: kaffage ☉

upcycled ♻️

antioxidant

anti-glycation

UV protection

KAFFE  
BUENO

## REFERENCES

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<sup>1</sup>Moreira, A.S., et al., (2012). Coffee melanoidins: structures, mechanisms of formation and potential health impacts. Food & Function. 3:903-915

<sup>2</sup>Own data

<sup>3</sup>Own data



CONTACT US HERE:



hej@kaffebueno.com



@kaffebueno



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