

Bakuchiol – BAKUCHIpure™: Unlock your Radiant and youthful skin with nature's secret

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Know Your Herb Bakuchiol – BAKUCHIpure™

Ayurveda, the ancient Indian system of medicine, utilizes a wide range of medicinal plants to promote health and treat various ailments. In recent years, there has been a growing demand for natural and sustainable ingredients in the cosmetic industry. Consumers are becoming more conscious about the products they use, and they are actively seeking out alternatives to synthetic chemicals. One such ingredient that has gained significant attention is bakuchiol. Derived from the seeds of the Babchi plant (*Psoralea corylifolia*), bakuchiol has emerged as a game-changer, offering a natural and effective alternative to retinol. As a result, it has become a sought-after raw material for cosmetic manufacturers worldwide.

Bioactive Compounds in Babchi:

Major constituents present in Bakuchi are Psoralen, bakuchiol, and bakuchicin. Bakuchi seeds contain an essential oil (0.05%), a nonvolatile terpenoid oil, a dark brown resin (8.6%), a pigment (hydroxy flavone), a monoterpenoid phenol named bakuchiol, a brown fixed oil (10%). Psoralen and isopsoralen are considered the therapeutically active constituent of the seeds with other constituents. Bakuchiol is the primary bioactive compound found in *Psoralea corylifolia*.



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The Rise of Bakuchiol

Bakuchiol, has its roots in traditional Ayurvedic medicine, where it has been used for centuries to treat various skin ailments. However, its introduction to the mainstream cosmetic industry is relatively recent. Bakuchiol gained significant popularity as an alternative to retinol, a widely used anti-aging ingredient known for its efficacy but also associated with potential skin irritation and sensitivity.

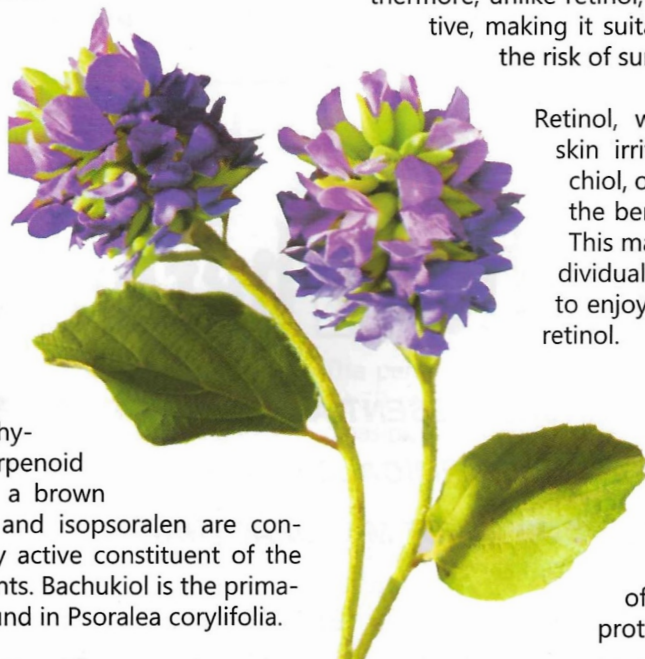
Bakuchiol's unique selling point lies in its ability to deliver similar benefits to retinol without the associated drawbacks. It is a plant-based compound that offers anti-aging, antioxidant, and anti-inflammatory properties, making

it an attractive choice for cosmetic formulations. Furthermore, unlike retinol, bakuchiol is not photosensitive, making it suitable for daytime use without the risk of sun sensitivity.

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Advantages of Bakuchiol – BAKUCHIpure™

1. Anti-aging properties: Bakuchiol has been scientifically proven to stimulate the production of collagen and elastin, two proteins crucial for maintaining





skin elasticity and reducing the appearance of fine lines and wrinkles. Its ability to enhance cell turnover also helps to improve skin texture and tone.

- 2. Gentle and well-tolerated:** Compared to retinol, bakuchiol is known for its gentle nature. It is less likely to cause skin irritation, dryness, or redness, making it suitable for individuals with sensitive skin.
- 3. Antioxidant and anti-inflammatory properties:** Bakuchiol exhibit potent antioxidant effects, protecting the skin from oxidative stress and environmental damage caused by free radicals. It also possesses anti-inflammatory properties, reducing redness and inflammation associated with skin conditions such as acne and rosacea.
- 4. Hair-** As per Ayurveda Bakuchiol removes dandruff and increases hair growth when applied externally. It also improves the quality and luster of hair. It is also beneficial for grey hairs.
- 5. Versatility and compatibility:** Bakuchiol can be incorporated into various cosmetic formulations, including serums, creams, lotions, and oils. It is compatible with other active ingredients, allowing formulators to create customized products tailored to specific skin concerns.

Bakuchiol has emerged as a highly demanded ingredient in the global cosmetic industry. Its natural origin, retinol-like benefits, and sustainable appeal have captured the attention of consumers and industry professionals alike. As a result, cosmetic companies are incorporating Bakuchiol into their formulations to cater to the growing demand for clean and effective skincare solutions.

Bakuchiol controls vitiligo spot because it helps in shrinking the white patches, the darker area slowly covers all white skin area by producing melanin.

BAKUCHIpure™ (CO2 Extracted Bakuchiol 99%) developed by SRIC (Sunpure Research Incubation Centre). It is extracted by the Super Critical Extraction Method / CO2 Extraction.

Specification:

Trade Name	BAKUCHIpure™
Botanical Name	Psoralea corylifolia
Plant part used	Seeds
Grades	USP/Non-USP-Ethanol/Oil Base
INCI Name	Bakuchiol
Appearance	Pale Yellow to brown viscous liquid
Purity (Assay)	Min. 99% by HPLC
Application	A cosmetic ingredient stable in formulate, easy to formulate with & has been shown to stabilize retinol

Expanding Applications in Cosmetics

- Skincare Formulations- Explore the inclusion of Bakuchiol in various skincare products such as moisturizers, serums, masks, and creams, highlighting its versatility and compatibility with different formulations.
- Hair care products, including its ability to promote hair growth, combat dandruff, and enhance overall hair health.

Safe for All Skin Types:

Unlike some skincare ingredients that cater to specific skin types, Bakuchiol is a versatile gem that suits everyone. Whether you have oily, dry, sensitive, or combination skin, you can enjoy the transformative effects of this remarkable compound. Its gentle nature ensures that even the most delicate skin can indulge in its extraordinary benefits without worry.

Applications of Bakuchiol 99% (BAKUCHIpure™) In Different Products Globally:

The global cosmetic industry has taken notice of BAKUCHIpure™ benefits and has swiftly integrated it into numerous skincare products. The compound has been incorporated into facial serums, moisturizers, anti-aging creams, and even acne treatments. This shift



in preferences, coupled with the increasing awareness of the potential side effects of synthetic compounds, has led to the remarkable rise in popularity of Bakuchiol.

Conclusion

Bakuchiol has emerged as a highly demanded ingredient in the global cosmetic industry. Its natural origin, retinol-like benefits, and sustainable appeal have captured the attention of consumers and industry professionals alike. As a result, cosmetic companies are incorporating Bakuchiol into their formulations to cater to the growing demand for clean and effective skincare solutions.

We are proud to offer BAKUCHIpure™ as a key component in creating innovative, sustainable, and transformative skincare formulations. Embrace the power of BAKUCHIpure™ and unlock a new era of beauty that combines science and nature for radiant, youthful skin. Let your radiant transformation begin!

References:

1. Khandekar A., Jadhav J.H., Danga S.K. ,Management of vitiligo: An ayurvedic perspective, 2015, Volume : 1, Issue : 1, Page : 41-43 2015.
2. Mohd. Shamim Khan, Qamrul Hasan Lari and Mahmood Ahmad Khan; Int. J. Pharm. Phytopharmacol. Res., Babchi (*Psoralea corylifolia* Linn.) and its therapeutic uses in Unani system Sadia Chishty, Monika, International Journal of Recent Scientific Research, A review on medicinal importance of babchi (*Psoralea corylifolia*); Vol. 7, Issue, 6, pp. 11504-11512, June, 2016.
3. Khushboo P. S., Jadhav V. M., Kadam V. J. and Sathe N. S.; Pharmacognosy Reviews; *Psoralea corylifolia* Linn. "Kushtanashini" 2010 Jan-Jun; 4(7): 69–76.
4. Irshad Hussain, Hakim Ali Abro, Naem Mubarak; JI-IMC; Skin Pigmentation Effects of *Psoralea Corylifolia*: A Case Study of Vitiligo; 2019 Vol. 14, No.1
5. Koul B, Taak P, Sanya I. Genus *Psoralea*: A review of the traditional and modern uses, phytochemistry and pharmacology. *Journal of Ethnopharmacology* [Internet]. 2018 2021]; (232):201–226.
6. Bakuchi (*Psoralea corylifolia*)- Best Herb for Vitiligo Ayurvedic Treatment for Kidney Failure | Ayurvedic Treatment for Diabetes. 2021 [cited 21 April 2021].
7. Jong-Eunkim, Kim Hawn Jae, LeeYounghyun, Yang Hee, Yong-seokHeo, Bode M. Ann, Lee Won Ki and Dong Zigang; Impact Journals, LLC; bakuchinol suppresses proliferation of skin cancer cells by directly targeting Hck, Blk and p38 MAP kinase; 2016 mar 22; 7(12):14616-14627
8. Yin Zhenhua, Zhang Wei, Zang Juanjuan, Liu Huili, Guo Qingfeng, Chen Lin, Wang Jinmei, and Kang Wenyi; *Molecules*; Two Novel Polysaccharides in *Psoralea corylifolia* Land anti-A549 Lung Cancer Cells Activity In Vitro; 2019 Oct; 24(20):3733.
9. Mathur M, Soni D, Kanodia L. Bakuchi [Internet]. 1mg.com. 2021 [cited 24 May 2021]. Available from: <https://www.1mg.com/ayurveda/bakuchi-72>.
10. Suhashini.R, Sindhu.S2, Sagadevan.E3; Int J of Pharmacognosy and Phytochemical Research; Invitro Evaluation of Antidiabetic Potential and Phytochemical Profile of *Psoralea corylifolia* Seeds; Vol 6, Issue 2, June-August 2014, 414-419
11. Rajput1 Sunita, Meena2, Singh Satyendra 3, Murthy A Rama; *Ayurpharm Int J Ayur Alli Sci.*, Brief review of Bakuchi (*Psoralea corylifolia* Linn.) and its therapeutic uses; Vol. 3, No. 11 (2014) Pages 322 – 330.
12. Feng J, Yang Y, Zhou Y, Wang B, Xiong H, Fan C, et al. (2016). Bakuchiol attenuates myocardial ischemia reperfusion injury by maintaining mitochondrial function: the role of silent information regulator 1. *Apoptosis* 21 (5), 532–545. 10.1007/s10495-016-1225-6.
13. Choi S. Y., Lee S., Choi W. H., Lee Y., Jo Y. O., Ha T. Y. (2010). Isolation and anti-inflammatory activity of Bakuchiol from *Ulmus davidiana* var. *japonica*. *J. Med. Food* 13 (4), 1019–1023. 10.1089/jmf.2009.1207.
14. Kim K. A., Shim S. H., Ahn H. R., Jung S. H. (2013). Protective effects of the compounds isolated from the seed of *Psoralea corylifolia* on oxidative stress-induced retinal damage. *Toxicol. Appl. Pharmacol.* 269 (2), 109–120. 10.1016/j.taap.2013.03.01. ●