



DETOX, ANTIOXIDANT, HEALTHY SKIN

 **indena®**  
INDUSTRIA  
DERIVATI  
NATURALI

NUTRACEUTICAL

PUREBKALE™

TUSCAN BLACK KALE SEED EXTRACT

**pureBkale™**

Please note this documentation is available for various countries all over the world and hence it may contain statements or product classification not applicable to your country. The claims made are in reference to ingredients only, hence they do not refer to finished products and they may not comply with Regulation 1924/2006/CE. The marketer of any finished product containing any ingredient is responsible for assuring that the destination of the product and the claims made for the finished product are lawful and comply with all applicable laws and regulations of the country or countries in which the product is to be sold.

## WHAT IS PUREBKALE™?

**PUREBKALE™** is an **aqueous dry extract**

from seeds of *Brassica oleracea* var. *viridis*

(L.) (syn. *Brassica oleracea* var. *acephala*

DC.) - Brassicaceae family, standardized

in glucoraphanin.

## SPECIFICATIONS

**PUREBKALE™** is standardized to provide

≥17% of glucoraphanin by HPLC.

## RECOMMENDED USE AND DOSE

**PUREBKALE™** is a dark brown powder for

use in nutritional supplements.

Recommended dose:<sup>1</sup> 150 mg/day (providing

25 mg/day of sulforaphane glucosinolate).

## TRADEMARKS

**PUREBKALE™** is a trademark of Indena

S.p.A. and its logo and usage guidelines

are available from Indena.

### References

<sup>1</sup> Kikuchi M *et al.*, *Jpn Pharmacol Ther* (2018) vol. 46 no. 1

<sup>2</sup> Cascajosa-Lira *et al.*, *Phytomedicine* 130 (2024) 155731.

<sup>3</sup> Samec *et al.*, *Critical Reviews in Food Science and Nutrition*, DOI: 10.1080/10408398 (2018) 1454400

<sup>4</sup> Moskwa *et al.*, *Nutrients* (2023), 15, 3594.

## WHAT MAKES PUREBKALE™ UNIQUE?

**PUREBKALE™** is crafted with the hallmark quality that defines Indena's manufacturing processes.

From the very beginning, **Indena selected the optimal source of *Brassica oleracea*** through a meticulous screening of more than 20 seed samples from different varieties.

This effort resulted in an extract **produced exclusively from 100% Italian Tuscan black kale seeds** with a **unique high concentration of glucoraphanin - at least 17% -** using exclusively water as solvent, resulting in a **food-grade product**.

**Glucoraphanin is a precursor to sulforaphane**, a compound extensively studied for its **health-promoting properties**.

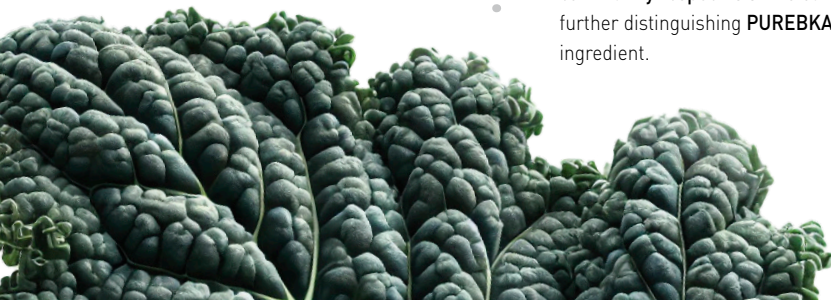
Scientific literature supports the **enzymatic conversion of glucoraphanin into sulforaphane** by the myrosinase activity of a specific bacteria of the human gut microbiota.<sup>2</sup>

This transformation unlocks the bioactive potential of sulforaphane, which has been linked to a **variety of benefits like detoxifying and antioxidant capabilities**, as well as in the context of "beauty from within".

Specifically, sulforaphane has shown promise in **preventing photoaging of the skin and reducing the risk of sunburns by modulating the effects of UV radiation**. Additionally, sulforaphane promotes **skin nourishment**, making it a **powerful ingredient for overall skin health**.<sup>3,4</sup>

From a **supply chain** perspective, Indena takes pride in a fully controlled and entirely Italian supply chain. **By working in harmony with local communities**, Indena ensures that seed sourcing is sustainable, with no negative impact on the plant itself.

This **commitment to quality, sustainability, and community respect** is at the core of Indena's approach, further distinguishing **PUREBKALE™** as a premium ingredient.



indena.com

