



WokVel® is a clinically researched and sustainable boswellia serrata extract, standardised to a proprietary, natural full spectrum of six major boswellic acids targeting 5-lipoxygenase (5-LOX) and therefore associated with joint integrity and healthy aging joint support.



PRODUCT PROFILE SHEET

The Boswellia serrata tree is known as Gajabhaksha (Elephant Tree) in Sanskrit because elephants were thought to gain strength from eating its resin. Also known as frankincense, Boswellia resin holds a sacred place in the history of many cultures. Modern science has focused on its strong anti-inflammatory activity and potential to support joint health.

WokVel® is standardized to a proprietary, natural spectrum fingerprint of six major boswellic acids by HPLC, including bioavailable 11-keto boswellic acid (KBA). Natural spectrum is a term that can be used to show preservation of the natural fingerprint of active compounds as it is found in the medicinal plant and it has been consumed traditionally.



Product Advantages

- ✓ **Clinically researched to support joint integrity and healthy joint aging**
- ✓ **Standardised to six major boswellic acids**
Minimum 40% (total) on specification.
- ✓ **Targets 5-lipoxygenase (5-LOX)**
WokVel® targets 5-lipoxygenase via a proprietary, full spectrum of six major boswellic acids and its efficacy has been demonstrated in clinical studies
- ✓ **Long-Lasting**
A clinical study showed patients receiving WokVel® experienced sustained effects after discontinuing supplementation.
- ✓ **Excellent safety profile and traditional use**
Boswellia serrata has been used traditionally as a joint comfort solution supporting improved mobility, comfort, joint integrity, and healthy joint aging.
- ✓ **Full traceability & sustainability**
Traceability and sustainability initiatives ensure a premium, wild-crafted ingredient. Verdure Sciences® support continuous initiatives to sustain the protected tree species
- ✓ **Clean label**
100% Natural without excipients
- ✓ **An excellent vegan option for joint support**
- ✓ **NASC preferred supplier in USA**
Pet food opportunities

Research

WokVel® Extract was shown to be effective in humans, with a single dose of 333 mg achieving blood levels of keto-boswellic acid (KBA) shown to address 5-lipoxygenase.¹

Multiple published trials have shown **statistically and clinically significant effects of WokVel® for joint health:**

A randomized, placebo controlled clinical study, conducted with WokVel® Extract in 30 patients, showed improvements in joint health parameters. Subjects were administered either WokVel® or placebo for 8-weeks; after a washout period following the first intervention, the groups were crossed to receive the opposite treatment for an additional 8-weeks. All subjects reported decreased knee pain, increased knee flexion, and increased walking distance while being administered WokVel®. The observed differences between WokVel® and placebo were reported as statistically significant.²

Another placebo-controlled human trial in 66 subjects compared the efficacy of WokVel® with valdecoxib, a prescription non-steroidal anti-inflammatory drug (NSAID). Clinically and statistically significant effects of WokVel® Extract were observed, similar to that of prescription NSAID, where WokVel® Extract effectively addressed various joint health issues. The chronic administration of WokVel® to human subjects led to a significant increase in joint flexion and mobility, and was well tolerated.



Interestingly, significant effects of WokVel[®] persisted for one month after dosing stopped, suggesting a potential benefit on articular cartilage³.

Key highlights from the scientific research on WokVel[®]:

- **Joint Support:** Clinical studies have found that WokVel supports improved joint function, healthy inflammatory responses, healthy joint aging, and improved joint integrity¹⁻³
- **77.5% Improved Soreness and Flexibility:** Research has reported an average of 77.5% increase in knee flexibility, decreased knee pain, increased knee flexion and increased walking distance^{2,3}
- **Long-Lasting:** In a clinical study, patients receiving WokVel[®] experienced sustained effects after discontinuing supplementation showing WokVel[®] is longer-lasting than a comparable NSAID.³
- **78.5% perceived benefits:** Studies have shown an average of 78.5% reduction in perceived knee pain.^{2,3}

Joint health synergy with Longvida[®], WokVel[®] and Pomella[®]

Known for its 5-lipoxygenase (5-LOX) inhibition activity, *Boswellia serrata* has been used traditionally as a joint comfort solution supporting improved mobility, comfort, joint integrity, and healthy joint aging. *Curcuma longa* is well known for its established cyclooxygenase-2 (COX-2) inhibition activity and favorable benefits promoting healthy joints, supporting improved antioxidant capacity, joint comfort, functionality, and healthy joint aging.

Adequate management of both the 5-LOX and COX-2 pathways offers a dual mechanistic approach joint comfort and functionality with clinically supported evidence for fast-acting, long-lasting benefits.

Furthermore, Pomella[®] Pomegranate Extract, paired with Longvida[®] Curcumin Extract and WokVel[®] may contribute to cartilage regeneration and lubrication via hyaluronic acid, adding additional support to healthy joints.

Manufacturing Process

WokVel[®] is manufactured in a vertically integrated, botanicals-only manufacturing facility audited for Good Manufacturing Practices (GMP) by third-party auditing agencies, like NSF International.

Quality Assurance

Traceability of raw material is a significant part of WokVel's quality control program. The *Boswellia* raw material is validated for identity against authenticated voucher specimens, ensuring a ensure a premium, wild-crafted ingredient.

Strict controls help ensure the quality and integrity of WokVel[®], starting at the forest level and continuing through batch release:

- The raw gum resin is procured only from suppliers that have successfully completed a rigorous qualification process. Incoming batches of gum resin are inspected and tested for identity before being released to production.
- The manufacturing of WokVel[®] is carried out at a GMP certified facility. Furthermore, strict controls are maintained throughout manufacturing, following an in-process monitoring system.
- The finished extract (WokVel[®]) is tested at the manufacturing site for identity, potency, impurities, and microbiological parameters.
- These results are then verified by third-party independent laboratories to ensure consistency and add a secondary level of corroborative results.

Sustainability

Rising market demand has exacerbated poor harvesting practices, putting strain on the *Boswellia serrata* species, as well as increasing adulteration concerns.

Without a robust supply chain program that encompasses sustainability and traceability, *Boswellia serrata* faces concerns surrounding quality and availability.

Our partners Verdure Sciences[®] liaise with the local government and indigenous populations in India to sustain, grow, and harvest the trees in an ongoing effort to mitigate adulteration, improve traceability, and help secure a healthy and sustainable supply chain.

Verdure Sciences[®] has donated 30,000 trees with goals to plant 10,000 annually and support a sustainable supply chain.



Product Safety

WokVel[®] has shown to be safe and efficacious in multiple clinical studies.



Product Range

Ingredient	Active Content	Grade	Mesh Size
WokVel	Min 40% Boswellic Acids	Powder	NLT 80% thru 80 mesh

Product Applications

WokVel® can be used in capsules and tablets.

Product Dosage

Peer-reviewed clinical trials support a recommended dosage of 333mg 1-3 times/day.



About



Headquarters in Noblesville, IN, USA, Verdure Sciences® is a supplier of plant-based, botanical ingredients with an emphasis on intrinsic synergies and clinically backed, tangible health applications. WokVel® is a registered trademark of Verdure Sciences®.

References

1. Sharma S et al. (2004) Pharmacokinetic study of 11-keto β -boswellic acid. *Phytomedicine*.
2. Kimmatkar N et al. (2003) Efficacy and tolerability of Boswellia serrata extract [WokVel®] in treatment of OA of knee – A randomized double blind placebo controlled trial.
3. Sontakke S et al. (2007) Open, randomized, controlled clinical trial of Boswellia serrata extract [WokVel®] as compared to valdecoxib in OA of knee.

WOKVEL® SCIENCE AND SELECTED REFERENCES

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