

RESEARCH · REFERENCE & CITATION SHEET

Standardizing Mitragynine: Why Marker-Based Kratom Extracts Matter

<https://www.vitigrp.com/insights/standardizing-mitragynine-kratom-extracts>

KEY TAKEAWAYS

- Standardization fixes the mitragynine content of an extract to a defined percentage so every batch performs the same.
- Mitragynine is the primary marker alkaloid used to quantify and specify *Mitragyna speciosa* extracts.
- Marker-based specs are verified by HPLC against a reference standard, enabling accurate dosing and quality control.
- VITI extracts are standardized, research / B2B materials; buyers confirm the regulatory status of kratom in their jurisdiction.

AT A GLANCE

Marker compound	Mitragynine (primary indole alkaloid)
Specification	Declared target % with upper & lower acceptance limits
Method	Reversed-phase HPLC vs. certified reference standard
Records	Per-batch assay result tied to a retained sample

REFERENCES & CITATIONS

1. Kruegel AC, Grundmann O. The medicinal chemistry and neuropharmacology of kratom. *Neuropharmacology*. 2018.
2. Prozialeck WC, Jivan JK, Andurkar SV. Pharmacology of kratom. *J Am Osteopath Assoc*. 2012.
3. WHO Expert Committee on Drug Dependence (ECDD). Critical Review of *Mitragyna speciosa* (kratom). 2021.