

## KRATOM

### Clinical Information

MEDTOX Laboratories is excited to announce the addition of a new quantitative test designed to detect the use of Kratom (*Mitragyna speciosa*). Kratom is a leafy tree native to Thailand and South-East Asia containing alkaloids which produce stimulating effects at low doses and opiate-like effects at higher doses. Leaves from the tree are typically dried and chewed or used as a tea. Although kratom is not a federally scheduled compound, the U.S. DEA considers kratom a drug of concern as documented use and abuse of the plant is growing within the U.S. In many south Asian countries and Australia kratom use is considered illegal.

The MEDTOX Laboratories urine test for kratom is a screen and confirmation procedure quantifying the main active ingredient in kratom, mitragynine. The procedure also qualitatively detects the presence of the related compound and metabolites 7-hydroxy mitragynine, 9-O-desmethyl mitragynine, and 17-O-desmethyl-16,17-dihydro mitragynine.

The MEDTOX Laboratories' test for Kratom is a fully validated procedure with a detection limit of 1.0 ng/mL. The method utilizes state of the art high performance liquid chromatography – tandem mass spectrometry (LC-MS/MS) and high performance liquid chromatography quadrupole linear ion trap techniques.

**Test #** 2800

**Synonyms** Kratom, Krathom, Biak-Biak, Cratom, Mitragyne, Gratom

**Category** Mixed Stimulant / Opioid

**Indication/ Use** No approved medical use

### Specimen Requirements

**Specimen** Unpreserved Urine

**Volume** 3 mL

**Handling** Ambient temperature for shipping and short-term storage (3 days); specimen may be refrigerated or frozen

### Assay Parameters

**Methodology** Liquid Chromatography with Tandem Mass Spectrometry (LC-MS/MS)

**CPT Code Suggested** 82542

**Interpretation** Kratom -  
*Reporting Limit: 1.0 ng/mL*