



Prague, 26th March 2024
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Ref. n.: 209-03-2024-BAFA

CERTIFICATE OF ANALYSIS

Customer:
Dalibor Bryja - RageFitness
Pekařská 67
Opava, 746 01
IČ: 05374090
DIČ: CZ9004075817

sample identification: *Mitragyna speciosa* (kratom)
BAFA identifier: 2024-057-PV
required analysis: quantitative analysis of Mitragynine a 7-Hydroxy-Mitragynine, determination of presence and concentration of heavy metal (Cd, Pb, Hg, As)
date of analysis: 24.3.2024
method: HPLC-MS-MRM, ICP-OES elemental analysis
instrumentation: LC/MS Thermo Ultimate 3000; AB Sciex, Qtrap 6500+ ; GBC Integra XL ICP-OES

analytical results:

Sample Customer identifier	mitragynin ¹⁾		7-hydroxymitragynin ¹⁾	
	mg/g	w. %	mg/g	w. %
Pure White	16,321	1,6321	0,072	0,0072
LOD (limit of detection)	0,001	0,0001	0,001	0,0001
LOQ (limit of quantification)	0,003	0,0003	0,003	0,0003
Method:	HPLC-MS-MRM		HPLC-MS-MRM	
	Measured Value (mg/kg)	LOD (mg/kg)	Limits by regulation 629/2008/ES (mg/kg)	
Cadmium (Cd)	0	0,05	1,0	
Lead (Pb)	0	0,05	3,0	
Mercury (Hg)	0	0,05	0,1	
Arsenic (As)	0	0,05	0,2*	

The analysis was carried out in accordance with the requirements of the Czech-Slovak Association for Kratom

Analysis responsible person:
PharmDr. Petra Cihlářová, Ph.D.
Mgr. Ing. Marek Martinec, Ph.D

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