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**Test certificate ML: 3520/22**

print no.: ENG\_857/22

Client: JZVZ Connection s.r.o.

 Kotelá ská 43  
 602 00 Brno  
 eská republika

 Sample received: 2.12.2022  
 Order no.: 29.11.2022  
 Sample description (client's): Yellow Kratom

 Testing item: kratom  
 packaging: paper bag  
 quantity: 100 g  
 Date of testing: 02.12.2022 - 16.12.2022  
 Location of testing: facilities of the MZL UTC, Technická 1903/3, 166 28 Prague 6 - Dejvice  
 Testing methods used: KM 23c: LC-MS  
 SOP 70.3: AAS-hydridy  
 SOP 70.4: AAS-AMA  
 SOP 70.72b: GF-AAS

**TEST RESULTS:**
*ALKALOIDS*

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
mitragynine	0.76	0.11	% weight	KM 23c	
7-hydroxymitragynine	0.0077	0.0015	% weight	KM 23c	
mitraphylline	<0.00001	-	% weight	KM 23c	F)

*METALS*

Analyte	Result*	Expanded uncertainty	Unit	Testing method	Notice
mercury	0.013	0.001	mg/kg	SOP 70.4	S)
cadmium	0.013	0.002	mg/kg	SOP 70.72	S)
lead	0.34	0.06	mg/kg	SOP 70.72	S)
arsenic	0.08	0.01	mg/kg	SOP 70.3	S)

\* the sign "&lt;" indicate that concentration is lower than this value, i.e. below limit of quantitation (LOQ)

F) existing testing method was modified/extended in the flexible scope of accreditation

S) testing performed by subcontracting laboratory

**Specification used for the assessment of test results:**

Expanded uncertainty was calculated using coverage factor  $k = 2$  corresponding to a coverage probability of approximately 95%.  
 Uncertainty was calculated and stated according to the EA-4/16 and manual Kvalimetrie 11 (issued by EURACHEM CZ). Uncertainty of sampling is not covered. Compliance is evaluated with respect to the uncertainty of test result according to the Guide ILAC-G8.  
 The results given herein apply only to the sample as received. This certificate shall not be reproduced except in full, without written approval of the Laboratory. The certificate does not substitute any other legal document. Laboratory is not responsible for information supplied by customer, if such information can affect the validity of results.

Appendix:

Date of issue: 16.12.2022

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Prof. Dr. Jana Hajšlová, head of the laboratory

*The end of Certificate*