

CERTIFICATE OF ANALYSIS

SAMPLE NAME: ZION HERBALS LUCKY 80

SAMPLE CODE: KTM-230511-006

BATCH RESULT: PASS



1230 Woodmere Ave
Traverse City, MI 49686
231.252.3669
cambiumanalytica.com



MATRIX NAME:
Kratom - Liquid Extract

SAMPLE TYPE:
Compliance

RECEIVED DATE:
Monday, May 15, 2023

PUBLISHED DATE:
Thursday, May 18, 2023

BATCH CODE:
V80128-23

BATCH SIZE:
3U

SAMPLE SIZE:
3U

AVERAGE UNIT WEIGHT:
15.0735g



LAB-TM-052
High Alkaloid Analysis
by UPLC



LAB-TM-047
Low Alkaloid Analysis
by LC-MS/MS



LAB-TM-004
Residual Solvent
Analysis by GC-MS



LAB-TM-042
Total Aerobic Bacteria
Analysis

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Thursday, May 18, 2023

RESULTS REVIEWED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Thursday, May 18, 2023

This report may not be reproduced except in full without approval from Cambium Analytica. The results herein relate only to the sample & batch identified in this report.



LAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD

ALKU-KTM-230511-006-01 - THURSDAY, MAY 11, 2023

ANALYTE	VALUE	VALUE (PER SERVING)	ACTION LIMIT	LOD	LOQ	STATUS
Mitragynine	1.14 %	171.898 mg	N/A	N/A	0.5 ug/g	N/A
Paynantheine	0.079 %	11.893 mg	N/A	N/A	0.5 ug/g	N/A
Speciociliatine	0.068 %	10.250 mg	N/A	N/A	0.5 ug/g	N/A
Speciogynine	0.06 %	8.969 mg	N/A	N/A	0.5 ug/g	N/A
Total Major Alkaloids	1.347 %	203.010 mg	N/A	N/A	N/A	N/A

LAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ

ALKL-KTM-230511-006-01 - THURSDAY, MAY 11, 2023

ANALYTE	VALUE	VALUE (PER SERVING)	ACTION LIMIT	LOD	LOQ	STATUS
7-Hydroxymitragynine	0 %	0.056 mg	N/A	N/A	N/A	N/A
Mitraphylline	0 %	0 mg	N/A	N/A	N/A	N/A
Total Minor Alkaloids	0 %	0.056 mg	N/A	N/A	N/A	N/A



LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS OF CANNABIS PRODUCTS

SOL-KTM-230511-006-01 - THURSDAY, MAY 11, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
1,2-Dichloroethane	ND	N/A	0.4 ug/g	1.34 ug/g	N/A
2-Methylbutane	ND	N/A	1.54 ug/g	5.14 ug/g	N/A
2-Methylpentane	ND	N/A	0.0462 ug/g	0.154 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	0.98 ug/g	3.27 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	2.19 ug/g	7.32 ug/g	N/A
3-Methylpentane	ND	N/A	0.73 ug/g	2.44 ug/g	N/A
Acetone	ND	N/A	1.57 ug/g	5.23 ug/g	N/A
Acetonitrile	ND	N/A	1.85 ug/g	6.17 ug/g	N/A
Benzene	ND	N/A	0.18 ug/g	0.59 ug/g	N/A
Butane	ND	N/A	1.68 ug/g	5.59 ug/g	N/A
Butanes (Sum of Butane and Isobutane)	ND	N/A	N/A	N/A	N/A
Chloroform	ND	N/A	0.78 ug/g	2.59 ug/g	N/A
Ethanol	ND	N/A	6.02 ug/g	20.1 ug/g	N/A
Ethyl Acetate	ND	N/A	1.95 ug/g	6.49 ug/g	N/A
Ethyl Ether	ND	N/A	1.37 ug/g	4.55 ug/g	N/A
Ethylene Oxide	ND	N/A	0.15 ug/g	0.49 ug/g	N/A
Heptane	ND	N/A	1.31 ug/g	4.37 ug/g	N/A
Hexane	ND	N/A	1.42 ug/g	4.74 ug/g	N/A
Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane)	ND	N/A	N/A	N/A	N/A
Isobutane	ND	N/A	1.6 ug/g	5.34 ug/g	N/A
Isopropyl Alcohol	ND	N/A	4.9 ug/g	16.3 ug/g	N/A
Methanol	ND	N/A	7.89 ug/g	26.4 ug/g	N/A
Methylene Chloride	ND	N/A	1.36 ug/g	4.53 ug/g	N/A
Neopentane	ND	N/A	1.49 ug/g	4.97 ug/g	N/A
Pentane	ND	N/A	1.46 ug/g	4.87 ug/g	N/A
Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane)	ND	N/A	N/A	N/A	N/A
Propane	ND	N/A	1.95 ug/g	6.51 ug/g	N/A
Toluene	ND	N/A	1.88 ug/g	6.26 ug/g	N/A
Total Xylenes	ND	N/A	2.02 ug/g	6.72 ug/g	N/A
Trichloroethylene	ND	N/A	0.29 ug/g	0.96 ug/g	N/A

LAB-TM-042 - ENUMERATION OF TOTAL AEROBIC BACTERIA ON 3M RAC PLATES

TAMC-KTM-230511-006-01 - THURSDAY, MAY 11, 2023



ANALYTE	VALUE	ACTION LIMIT	LOD	LOQ	STATUS
Total Aerobic Count	0 CFU/g	N/A	N/A	N/A	N/A

