

Certificate of Analysis

Lemon Lockjaw

Client: NBHD Manufacturing



Sample Name:

Lemon Lockjaw

Matrix:

NA

Unit Mass:

2.02g per unit

Sample ID:

81260320-4KAV

Testing ID:

81260320-4KAV

Date Received:

3/16/2026

Marie

Approved By:

Marie True, M.S.

Laboratory Manager

Analysis Summary

	%	mg/serving
Methysticin	ND	ND
Kavain + Dihydromethysticin (Combined)	ND	ND
Dihydrokavain	ND	ND
Desmethoxyyangonin	ND	ND
Yangonin	ND	ND
Flavokawain C	ND	ND
Flavokawain A	ND	ND
Flavokawain B	ND	ND
Total Tested Kavalactones	0.00	0.00
Mitragynine	4.40	88.90
7-OH Mitragynine	ND	ND
Paynantheine	0.76	15.38
Speciogynine	0.63	12.77
Speciociliatine	1.10	22.25
Corynantheidine	ND	ND
Mitraphylline	ND	ND
9-O-desmethyl Mitragynine	ND	ND
Corynoxine B	ND	ND
Ajmalicine	ND	ND
Isomitraphylline	ND	ND
Mitraciliatine	0.10	2.04
*13-OH-THP Corydalis Yanhusuo	2.90	58.57
THP	ND	ND
Caffeine	3.72	75.23
MGM-15	ND	ND
Total Tested Alkaloids	13.62	275.15

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References: limit of quantitation (LOQ), not detected (ND), not tested (NT)

Certificate of Analysis

Analysis

Complete

Test	LOD (ppm)	LOQ (ppm)	Mass (%)	mg/serving
Methysticin	1.041	3.12	ND	ND
Kavain + Dihydromethysticin (Combined)	1.041	3.12	ND	ND
Dihydrokavain	1.041	3.12	ND	ND
Desmethoxyyangonin	1.041	3.12	ND	ND
Yangonin	1.041	3.12	ND	ND
Flavokawain C	1.041	3.12	ND	ND
Flavokawain A	1.041	3.12	ND	ND
Flavokawain B	1.041	3.12	ND	ND
Mitragynine	0.016	0.049	4.401	88.90
7-OH Mitragynine	0.019	0.06	ND	ND
Paynantheine	0.022	0.07	0.761	15.38
Speciogynine	0.019	0.06	0.632	12.77
Speciociliatine	0.018	0.05	1.102	22.25
Corynantheidine	0.024	0.07	ND	ND
Mitraphylline	0.017	0.05	ND	ND
9-O-desmethyl Mitragynine	0.017	0.050	ND	ND
Corynoxine B	0.022	0.07	ND	ND
Ajmalicine	0.024	0.07	ND	ND
Isomitraphylline	0.019	0.06	ND	ND
Mitraciliatine	0.020	0.060	0.101	2.04
Mitragynine pseudoindoxyl	0.019	0.06	ND	ND
*13-OH-THP Corydalis Yanhusuo	N/A	N/A	2.899	58.57
THP	0.018	0.05	ND	ND
Caffeine	0.020	0.060	3.724	75.23
MGM-15	0.011	0.03	ND	ND
Total Tested Alkaloids			13.62	275.15

0 "zero" = ND = Nondetect = Less than LOQ (Limit of Quantitation)

Method References:

HPLCUVKAV01 - High Pressure Liquid Chromatography with UV Detection for Kava Alkaloids

HPLC SOP 230-RDSQA - *13-OH Corydalis Yanhusuo was semi-qualitatively analyzed using NMR, HPLC, LC-MS verified potential 13-OH THP (sample ID: 65450729-a), without a CRM.