FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Certificate of Analysis

Cherry Bombs

Client: NBHD Manufacturing

Sample Name:
Cherry Bombs

Matrix:
NA

Unit Mass:
1.86g per unit

Sample ID:
81260320-1KAV

Testing ID:
81260320-1KAV

Date Received:
3/16/2026

Analysis Summary	%	mg/serving
Methysticin	1.33	24.74
Kavain + Dihydromethysticin (Combined)	1.65	30.67
Dihydrokavain	2.94	54.65
Desmethoxyyangonin	0.69	12.84
Yangonin	0.97	18.03
Flavokawain C	ND	ND
Flavokawain A	0.09	1.74
Flavokawain B	0.21	3.86
Total Tested Kavalactones	7.88	146.53
Mitragynine	5.46	101.60
7-OH Mitragynine	ND	ND
Paynantheine	0.96	17.88
Speciogynine	0.81	15.01
Speciociliatine	1.39	25.83
Corynantheidine	ND	ND
Mitraphylline	ND	ND
9-O-desmethyl Mitragynine	ND	ND
Corynoxine B	ND	ND
Ajmalicine	ND	ND
Isomitraphylline	ND	ND
Mitraciliatine	0.13	2.36
*13-OH-THP Corydalis Yanhusuo	3.12	58.05
THP	ND	ND
Caffeine	ND	ND
MGM-15	ND	ND
Total Tested Alkaloids	19.75	367.26

Approved By:
Marie True, M.S.
Laboratory Manager

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	1.330	24.74
Kavain + Dihydromethysticin (Combined)	1.041	3.12	1.649	30.67
Dihydrokavain	1.041	3.12	2.938	54.65
Desmethoxyyangonin	1.041	3.12	0.691	12.84
Yangonin	1.041	3.12	0.970	18.03
Flavokawain C	1.041	3.12	ND	ND
Flavokawain A	1.041	3.12	0.093	1.74
Flavokawain B	1.041	3.12	0.207	3.86
Mitragynine	0.016	0.049	5.462	101.60
7-OH Mitragynine	0.019	0.06	ND	ND
Paynantheine	0.022	0.07	0.961	17.88
Speciogynine	0.019	0.06	0.807	15.01
Speciociliatine	0.018	0.05	1.389	25.83
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	0.127	2.36
Mitragynine pseudoindoxyl	0.019	0.06	ND	ND
*13-OH-THP Corydalis Yanhusuo	N/A	N/A	3.121	58.05
THP	0.018	0.05	ND	ND
Caffeine	0.020	0.060	ND	ND
MGM-15	0.011	0.03	ND	ND
Total Tested Alkaloids			19.75	367.26

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.