FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 92160914-2
Date Issued: 10/4/26

Certificate of Analysis

Acend Blue Razz 200mg

Client: Real Botanicals



Sample Name:
Acend Blue Razz 200mg

Matrix:
Other

Serving Mass:
0.519 g per tablet

Sample ID:
92160914-2

Date Received:
9/14/26

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

Analysis Summary	Percent (%)	mg/Tablet
Mitragynine	31.398	162.957
7-OH Mitragynine	ND	ND
Paynantheine	1.293	6.710
Speciogynine	0.724	3.758
Speciociliatine	ND	ND
Corynantheidine	ND	ND
Mitraphylline	ND	ND
9-O-desmethyl Mitragynine	ND	ND
Corynoxine B	ND	ND
Ajmalicine	ND	ND
Isomitraphylline	ND	ND
Mitraciliatine	ND	ND
Mitragynine pseudoindoxyl	ND	ND
MGM-16	ND	ND
MGM-15	ND	ND
7-acetoxy Mitragynine	ND	ND
Total Quantified Alkaloids	33.42	173.42
Mesembrine	0.2401	1.2462
Mesembrenone	0.0008	0.0042
D7-Mesembrenone	ND	ND
Mesembrenol	ND	ND
Total Quantified Kanna Alkaloids	0.2409	1.2504
*13-OH Corydalis Yanhusuo	5.04	26.14
Tetrahydropalmatine	ND	ND
Paraxanthine	ND	ND

Analysis Overview	
Residual Solvents & Processing Chemicals	Pass
Residual Pesticides	Pass
Heavy Metals	Pass
Microbial Impurities	

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

Certificate of Analysis

Kratom Alkaloid Analysis

Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	mg/Tablet
Mitragynine	**0.016**	**0.049**	**31.398**	**162.96**
7-OH Mitragynine	0.019	0.058	**ND**	**ND**
Paynantheine	**0.022**	**0.066**	**1.293**	**6.71**
Speciogynine	**0.019**	**0.056**	**0.724**	**3.76**
Speciociliatine	0.018	0.054	**ND**	**ND**
Corynantheidine	0.024	0.073	**ND**	**ND**
Mitraphylline	0.017	0.052	**ND**	**ND**
9-O-desmethyl Mitragynine	0.017	0.050	**ND**	**ND**
Corynoxine B	0.022	0.066	**ND**	**ND**
Ajmalicine	0.024	0.071	**ND**	**ND**
Isomitraphylline	0.019	0.057	**ND**	**ND**
Mitraciliatine	0.020	0.060	**ND**	**ND**
Mitragynine pseudoindoxyl	0.033	0.098	**ND**	**ND**
MGM-16	0.012	0.04	**ND**	**ND**
MGM-15	0.011	0.03	**ND**	**ND**
7-acetoxy Mitragynine	0.029	0.087	**ND**	**ND**
Total Quantified Alkaloids			**33.415**	**173.42**

Alkaloid Analysis

Complete

Analyte	LOD (%)	LOQ (%)	Mass (%)	mg/Tablet
Mesembrine	0.000011	0.000032	**0.2401**	**1.2462**
Mesembrenone	0.000021	0.000063	**0.0008**	**0.0042**
D7-Mesembrenone	0.000011	0.000032	**ND**	**ND**
Mesembrenol	0.000021	0.000063	**ND**	**ND**
Total Quantified Kanna Alkaloids			**0.2409**	**1.25**
*13-OH Corydalis Yanhusuo	N/A	N/A	**5.0367**	**26.1404**
Tetrahydropalmatine	0.018	0.059	**ND**	**ND**
Paraxanthine	0.095	0.290	**ND**	**ND**

Residual Solvents Analysis

Pass

Analyte	LOQ (µg/g)	Limit (mg/g)	Mass (mg/g)	Status
Acetone	0.490	5.000	ND	Pass
Acetonitrile	0.460	0.410	ND	Pass
Benzene	0.590	0.002	ND	Pass
Butane	0.560	N/A	ND	N/A
Chloroform	0.510	0.060	ND	Pass
1,2-Dichloroethane	0.570	0.005	ND	Pass
Ethanol	0.470	5.000	ND	Pass
Ethyl Acetate	0.520	5.000	0.5380	Pass
Ethyl Ether	0.480	5.000	ND	Pass
Ethylene Oxide	0.460	0.010	ND	Pass
Heptane	0.520	5.000	ND	Pass
n-Hexane	0.540	0.290	ND	Pass
Isopropanol	0.580	5.000	ND	Pass
Methanol	0.460	3.000	0.0360	Pass
Methylene Chloride	0.560	0.600	ND	Pass
Pentane	0.520	5.000	ND	Pass
Propane	0.510	N/A	ND	N/A
Toluene	0.480	0.890	ND	Pass
Trichloroethylene	0.520	0.080	ND	Pass
Xylenes	0.580	2.170	ND	Pass

Certificate of Analysis

Pesticide Analysis

Pass

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Abamectin	0.050	0.10	ND	Pass
Acephate	0.050	0.10	ND	Pass
Acetamiprid	0.050	0.10	ND	Pass
Aldicarb	0.050	0.00	ND	Pass
Azoxystrobin	0.050	0.10	ND	Pass
Bifenazate	0.050	0.10	ND	Pass
Bifenthrin	0.050	3.00	ND	Pass
Boscalid	0.050	0.10	ND	Pass
Carbaryl	0.050	0.50	ND	Pass
Carbofuran	0.050	0.00	ND	Pass
Chlorantraniliprole	0.050	10.00	ND	Pass
Chlorpyrifos	0.050	0.00	ND	Pass
Clofentezine	0.050	0.10	ND	Pass
Coumaphos	0.050	0.00	ND	Pass
Daminozide	0.050	0.00	ND	Pass
DDVP	0.050	0.00	ND	Pass
Diazinon	0.050	0.10	ND	Pass
Dimethoate	0.050	0.00	ND	Pass
Dimethomorph	0.050	2.00	ND	Pass
Ethoprophos	0.050	0.00	ND	Pass
Etofenprox	0.050	0.00	ND	Pass
Etoxazole	0.050	0.10	ND	Pass
Fenhexamid	0.050	0.10	ND	Pass
Fenoxycarb	0.050	0.00	ND	Pass
Fenpyroximate	0.050	0.10	ND	Pass
Flonicamid	0.050	0.10	ND	Pass
Hexythiazox	0.050	0.10	ND	Pass
Imazalil	0.050	0.00	ND	Pass
Imidacloprid	0.050	5.00	ND	Pass
Kresoxim Methyl	0.050	0.10	ND	Pass
Malathion	0.050	0.50	ND	Pass
Metalaxyl	0.050	2.00	ND	Pass
Methiocarb	0.050	0.00	ND	Pass
Methomyl	0.050	1.00	ND	Pass
Mevinphos	0.050	0.00	ND	Pass
Myclobutanil	0.050	0.10	ND	Pass
Oxamyl	0.050	0.50	ND	Pass
Paclobutrazol	0.050	0.00	ND	Pass
Permethrin	0.050	0.50	ND	Pass
Phosmet	0.050	0.10	ND	Pass
Piperonyl Butoxide	0.050	3.00	ND	Pass
Propiconazole	0.050	0.10	ND	Pass
Propoxur	0.050	0.00	ND	Pass

Certificate of Analysis

Pesticide Analysis

Pass

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Pyrethrins	0.050	0.50	ND	Pass
Pyridaben	0.050	0.10	ND	Pass
Spinetoram	0.050	0.10	ND	Pass
Spinosad	0.050	0.10	ND	Pass
Spiromesifen	0.050	0.10	ND	Pass
Spirotetramat	0.050	0.10	ND	Pass
Spiroxamine	0.050	0.00	ND	Pass
Tebuconazole	0.050	0.10	ND	Pass
Thiacloprid	0.050	0.00	ND	Pass
Thiamethoxam	0.050	5.00	ND	Pass
Trifloxystrobin	0.050	0.10	ND	Pass

Heavy Metals Analysis

Pass

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Arsenic	0.050	0.200	ND	Pass
Cadmium	0.050	0.200	ND	Pass
Lead	0.125	0.500	ND	Pass
Mercury	0.025	0.100	ND	Pass

Microbial Analysis

Test	LOQ	Limit (CFU/g)	Result (CFU/g)
Aerobic Plate Count	100 CFU/g	< 10,000	200
Total Yeast & Mold	100 CFU/g	< 1000	700
Escherichia coli	100 CFU/g	Not Detected in 1g	<100
Coliform	100 CFU/g	<100	<100
Staphylococcus aureus	100 CFU/g	Not Detected in 1g	<100
Salmonella spp	N/A	Not Detected in 1g	Not Detected

CFU = Colony Forming Units

Method References:

HPLC SOP K5316L - Diode Array Detector, Liquid Chromatography.

HSGCMS02 - Headspace Gas Chromatography with Mass Spectrometric Detection for Residual Solvents Panel

Multi-Residue Pesticide Analysis - (AOAC_200701)

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

Heavy Metals Analysis - 4 elements (EPA_200.8)

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).

TYAMC Microbial Analysis - (YMSOP1001-AOAC)

ISO 21527-1 / AOAC Official Method 997.02 Yeast and Mold Counts in Foods / FDA BAM Chapter 18

APC Microbial Analysis - (ACSOP1003-AOAC)

ISO 4833-1 / Aerobic Plate Count: Rapid Aerobic Count Plate 2015.13 / AOAC Official Method 990.12 Aerobic Plate Count in Foods

ECC Microbial Analysis - (ECSOP1006-AOAC)

ISO 16649-2 / ISO 4832 / AOAC Official Method 2018.13 Enumeration of E. coli and Coliforms

STX Microbial Analysis - (STXSOP1005-AOAC)

ISO 6888-1 / AOAC Official Method 2003.07 Staphylococcus aureus in Foods

SL Microbial Analysis - (SLSOP1002-AOAC)

EN ISO 16140 / AOAC Official Method 2014.01 Salmonella in Selected Foods