

# Certificate of Analysis

**Sample Name:** Flow State Lavender Cream 26-036  
**Client:** Pure Infinity Botanicals  
**Sample Code:** DTS-260210-034  
**Matrix Name:** Emulsion - Liquid  
**Type / Result:** N/A - Pass



**Received Date:** Wed, Feb 11, 2026  
**Published Date:** Mon, Feb 16, 2026  
**Batch/Lot Code:** 0671-01-012  
**Batch Size:** N/A  
**Sample Size:** 1U  
**Average Unit Weight:** 1.0464g (Density (g/mL))

## RESULT SUMMARY

Total Kavalactones and Kavains	5.46 mg /serv
Total Kavalactones	5.27 mg /serv
Total Flavokavains	0.18 mg /serv
Mitragynine	0.99 mg /serv
Total Major Alkaloids	1.03 mg /serv

KAVAL   
Kavalactones & Kavains

ALKU   
Kratom Alkaloids  
High Level

ALKL   
Kratom Alkaloids  
Low Level

DEN   
Density of Liquids

SOLHM   
Residual Solvents  
National Panel

## Approvals

### RESULTS REVIEWED BY:

**Leslie Varela**  
Laboratory Director

Cambium Analytica  
Monday, Feb 16, 2026

### RESULTS CERTIFIED BY:

**Douglas Smith**  
VP - Scientific  
Operations

Cambium Analytica  
Monday, Feb 16, 2026

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## Lab Information

**Address:** 1230 Woodmere Ave, Traverse City, MI 49686    **Phone:** 231.252.3669    **Accreditation:** ISO/IEC 17025:2017 – #108157

KAVAL

**Kavalactones & Kavains**LAB-TM-067 - Determination of Kavalactones & Kavains by LC-DAD  
KAVAL-DTS-260210-034-01 - FRI, FEB 13, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Dihydrokavain	0.1512 %	1.5117 mg/g	1.58 mg	1.58 mg	N/A	0.25 ug/g	1 ug/g	N/A
Dihydromethysticin	0.1114 %	1.1143 mg/g	1.17 mg	1.17 mg	N/A	0.25 ug/g	1 ug/g	N/A
Kavain	0.0789 %	0.7889 mg/g	0.83 mg	0.83 mg	N/A	0.25 ug/g	1 ug/g	N/A
Methysticin	0.0708 %	0.7076 mg/g	0.74 mg	0.74 mg	N/A	0.25 ug/g	1 ug/g	N/A
Yangonin	0.0522 %	0.5221 mg/g	0.55 mg	0.55 mg	N/A	0.25 ug/g	1 ug/g	N/A
Desmethoxyyangonin	0.0396 %	0.3957 mg/g	0.41 mg	0.41 mg	N/A	0.25 ug/g	1 ug/g	N/A
Flavokavain B	0.0130 %	0.1296 mg/g	0.14 mg	0.14 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Flavokavain A	0.0046 %	0.0463 mg/g	0.05 mg	0.05 mg	N/A	0.025 ug/g	0.1 ug/g	N/A
Total Kavalactones and Kavains*	0.5216 %	5.2162 mg/g	5.46 mg	5.46 mg	N/A	N/A	N/A	N/A
Total Kavalactones*	0.5040 %	5.0403 mg/g	5.27 mg	5.27 mg	N/A	N/A	N/A	N/A
Total Flavokavains*	0.0176 %	0.1759 mg/g	0.18 mg	0.18 mg	N/A	N/A	N/A	N/A

\*Total Kavalactones and Kavains is calculated as the sum of all quantified kavalactones and kavains.

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\*Total Flavokavains is calculated as the sum of Flavokavain A, Flavokavain B and Flavokavain C.

ALKU

**Kratom Alkaloids - High Level**LAB-TM-052 - Determination of Kratom Alkaloid Content by UPLC-DAD  
ALKU-DTS-260210-034-01 - FRI, FEB 13, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
Mitragynine	0.0946 %	0.9464 mg/g	0.99 mg	0.99 mg	N/A	0.0005 mg/g	0.001 mg/g	N/A
Paynantheine	0.0023 %	0.0232 mg/g	0.02 mg	0.02 mg	N/A	0.0005 mg/g	0.001 mg/g	N/A
Speciogynine	0.0013 %	0.0135 mg/g	0.01 mg	0.01 mg	N/A	0.0005 mg/g	0.001 mg/g	N/A
Speciociliatine	ND	N/A	N/A	N/A	N/A	0.0005 mg/g	0.001 mg/g	N/A
Total Major Alkaloids*	0.0983 %	0.9831 mg/g	1.03 mg	1.03 mg	N/A	N/A	N/A	N/A

\*Total Major Alkaloids is calculated as the sum of Mitragynine, Paynantheine, Speciociliatine and Speciogynine.

ALKL

**Kratom Alkaloids - Low Level**LAB-TM-047 - Determination of Kratom Alkaloid Content by LC-TQ  
ALKL-DTS-260210-034-01 - MON, FEB 16, 2026

Analyte	Value	Value (mg/g)	Per Serving	Per Package	Action Limit	LOD	LOQ	Status
7-Hydroxymitragynine	0.00004 %	0.00043 mg/g	0.00 mg	0.00 mg	N/A	0.002 ug/g	0.011 ug/g	N/A
Mitraphylline	ND	N/A	N/A	N/A	N/A	0.004 ug/g	0.019 ug/g	N/A
Total Minor Alkaloids*	0.00004 %	0.00043 mg/g	0.00 mg	0.00 mg	N/A	N/A	N/A	N/A

\*Total Minor Alkaloids is calculated as the sum of 7-Hydroxymitragynine and Mitraphylline.

DEN

## Density of Liquids

LAB-TM-017 - Brix &amp; Density Analysis

DEN-DTS-260210-034-01 - THU, FEB 12, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
Density	1.0464 g/mL	N/A	N/A	N/A	N/A
Specific Gravity*	1.0483	N/A	N/A	N/A	N/A

\*Specific gravity is calculated using the density of water at 20 °C (0.9982 g/mL) using the equation:  
[Specific Gravity = (Density of sample in g/mL) ÷ 0.9982 g/mL]

SOLHM

## Residual Solvents - National Panel

ANA-TM-004 - Determination of Residual Solvents

SOLHM-DTS-260210-034-01 - FRI, FEB 13, 2026



Analyte	Value	Action Limit	LOD	LOQ	Status
1,1-Dichloroethene	ND	N/A	5 ug/g	10 ug/g	N/A
1,2-Dichloroethane	ND	5 ug/g	0.5 ug/g	1.00 ug/g	PASS
2-Methylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
2,2-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
2,3-Dimethylbutane	ND	N/A	5 ug/g	10 ug/g	N/A
3-Methylpentane	ND	N/A	5 ug/g	10 ug/g	N/A
Acetone	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Acetonitrile	ND	410 ug/g	5 ug/g	10 ug/g	PASS
Benzene	ND	2 ug/g	0.18 ug/g	0.50 ug/g	PASS
Butane	ND	N/A	5 ug/g	10 ug/g	N/A
Chloroform	ND	60 ug/g	0.78 ug/g	1 ug/g	PASS
Ethanol	179.207 ug/g	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethyl Acetate	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethyl Ether	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Ethylene Oxide	ND	N/A	2 ug/g	4 ug/g	N/A
Heptane	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Hexane	ND	290 ug/g	5 ug/g	10 ug/g	PASS
Isobutane	ND	N/A	5 ug/g	10 ug/g	N/A
Isopropyl Alcohol	ND	N/A	5 ug/g	10 ug/g	N/A
Methanol	ND	3000 ug/g	5 ug/g	10 ug/g	PASS
Methylene Chloride	ND	600 ug/g	5 ug/g	10 ug/g	PASS
Neopentane	ND	N/A	5 ug/g	10 ug/g	N/A
Pentane	ND	5000 ug/g	5 ug/g	10 ug/g	PASS
Propane	ND	N/A	5 ug/g	10 ug/g	N/A
Toluene	ND	890 ug/g	5 ug/g	10 ug/g	PASS
Total Xylenes	ND	2170 ug/g	5 ug/g	10 ug/g	PASS
Trichloroethylene	ND	80 ug/g	0.5 ug/g	1 ug/g	PASS
Total Butanes*	0.000 ug/g	N/A	N/A	N/A	N/A
Total Hexanes*	0.000 ug/g	290 ug/g	N/A	N/A	PASS
Total Pentanes*	0.000 ug/g	5000 ug/g	N/A	N/A	PASS

\*Total Butanes is calculated as the sum of Butane and Isobutane

\*Total Hexanes is calculated as the sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane.

\*Total Pentanes is calculated as the sum of Pentane, 2-Methylbutane, and Neopentane.