

STATUS: RELEASED REVISION: 00 DATE: 11/06/2021

 Analysis ID No.
 214012

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Purchase Order:
 20210935

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| CUSTOMER INFORMATION | SAMPLE INFORMATION |
|-----------------------|---|
| Company Name: | Submitted Sample Name: |
| | Kratom Spot, Orange Cream Kratom Shot |
| Address: | Submitted Sample Lot: |
| | 00535 |
| Phone Number: | Submitted Sample Description: |
| | Beverage in Sealed Retail Bottle; Stored at Room Temp |
| Contact Name / Email: | Submitted Sample Product Type / Matrix: |
| | Kratom Shot / Beverage |

| | LABEL CLAIM | | | | | |
|-------------|-------------|-------------------|-----------------------------------|----------------|-------------------|--|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail | |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | mg/mL: Report Only* | 0.393 mg/mL | Results Report | |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | mg/unit: Report Only** | 22.403 mg/unit | Results Report | |
| | *Soluti | on Density = 1.08 | 38 g/mL; **Unit Size = 59 mL (1 b | ottle) | | |

| | ALKALOIDS ASSAY | | | | |
|--------------------|-----------------|-----------|--|---|---------------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | 0.036 w/w% 0.361 mg/g 0.393 mg/mL | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* % Total Alkaloids: NMT 2% | < 0.01 w/w% | PASS |
| Mitraphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| Corynoxine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | < 0.01 w/w% | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only* | 0.036 w/w% 0.361 mg/g 0.393 mg/mL | Results Reported |



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| | MICROBIOLOGICAL ASSAY | | | | | |
|-------------------------------------|-----------------------|-------------|-------------------|--------------|-------------|--|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail | |
| Total Aerobic Plate Count (TAPC) | Isolation Agar | 10 CFU/gm | NMT 10,000 CFU/gm | < LOQ | PASS | |
| Total Yeast & Mold (TYM) | Isolation Agar | 10 CFU/gm | NMT 1,000 CFU/gm | < LOQ | PASS | |
| Coliforms | Isolation Agar | 10 CFU/gm | NMT 100 CFU/gm | < LOQ | PASS | |
| Esherichia coli (E. coli) | Isolation Agar | 1 CFU/10 gm | Absent in 10 gm | Absent | PASS | |
| Salmonella | Isolation Agar | 1 CFU/25 gm | Absent in 25 gm | Absent | PASS | |

| | HEAVY METALS | | | | | |
|----------|------------------------------|--------|-----------------|--------------|-------------|--|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail | |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | < LOQ | PASS | |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | < LOQ | PASS | |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | < LOQ | PASS | |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | < LOQ | PASS | |
| Nickel | USP <232> <233> by ICP-MS | 10 ppb | NMT 200,000 ppb | < LOQ | PASS | |

| RESIDUAL SOLVENTS ASSAY | | | | | |
|----------------------------------|-----------------------|-----------|----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| 1,1-Dichloroethene | USP <467> by GC-MS | 0.020 ppm | NMT 8 ppm | < LOQ | PASS |
| 1,1,1-Trichloroethane | USP <467> by GC-MS | 3.75 ppm | NMT 1,500 ppm | < LOQ | PASS |
| 1,2-Dichloroethane | USP <467> by GC-MS | 0.013 ppm | NMT 5 ppm | < LOQ | PASS |
| Benzene | USP <467> by GC-MS | 0.005 ppm | NMT 2 ppm | < LOQ | PASS |
| Carbon tetrachloride | USP <467> by GC-MS | 0.010 ppm | NMT 4 ppm | < LOQ | PASS |
| 1,2-dichloroethene (E,Z) | USP <467> by GC-MS | 4.675 ppm | NMT 1870 ppm | < LOQ | PASS |
| 1,2-Dimethoxyethane | USP <467> by GC-MS | 0.25 ppm | NMT 100 ppm | < LOQ | PASS |
| 1,2,3,4- tetrahydronapthalene | USP <467> by GC-MS | 0.25 ppm | NMT 100 ppm | < LOQ | PASS |
| 1,4-Dioxane | USP <467> by GC-MS | 0.95 ppm | NMT 380 ppm | < LOQ | PASS |
| 2-Hexanone | USP <467> by GC-MS | 0.125 ppm | NMT 50 ppm | < LOQ | PASS |
| 4-methyl-2- pentanone | USP <467> by GC-MS | 12.5 ppm | NMT 4,500 ppm | < LOQ | PASS |
| Acetonitrile | USP <467> by GC-MS | 1.025 ppm | NMT 410 ppm | < LOQ | PASS |



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|---------------------|-----------------------|-----------|------------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Chlorobenzene | USP <467> by GC-MS | 0.9 ppm | NMT 360 ppm | < LOQ | PASS |
| Chloroform | USP <467> by GC-MS | 0.15 ppm | NMT 60 ppm | < LOQ | PASS |
| Cumene | USP <467> by GC-MS | 0.175 ppm | NMT 70 ppm | < LOQ | PASS |
| Cyclohexane | USP <467> by GC-MS | 9.7 ppm | NMT 3,880 ppm | < LOQ | PASS |
| Dichloromethane | USP <467> by GC-MS | 1.5 ppm | NMT 600 ppm | < LOQ | PASS |
| Ethylbenzene | USP <467> by GC-MS | 5.425 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Hexane, n- | USP <467> by GC-MS | 0.725 ppm | NMT 290 ppm | < LOQ | PASS |
| Methanol | USP <467> by GC-MS | 7.5 ppm | NMT 3,000 ppm | < LOQ | PASS |
| Methylcyclohexane | USP <467> by GC-MS | 2.95 ppm | NMT 1,180 ppm | < LOQ | PASS |
| Nitromethane | USP <467> by GC-MS | 0.125 ppm | NMT 50 ppm | < LOQ | PASS |
| Pyridine | USP <467> by GC-MS | 0.50 ppm | NMT 200 ppm | < LOQ | PASS |
| Tetrahydrofuran | USP <467> by GC-MS | 1.8 ppm | NMT 720 ppm | < LOQ | PASS |
| Toluene | USP <467> by GC-MS | 2.225 ppm | NMT 890 ppm | < LOQ | PASS |
| Trichloroethene | USP <467> by GC-MS | 0.20 ppm | NMT 80 ppm | < LOQ | PASS |
| Xylene, m- | USP <467> by GC-MS | 108.5 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Xylene, o- | USP <467> by GC-MS | 5.425 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Xylene, p- | USP <467> by GC-MS | 5.425 ppm | NMT 2,170 ppm | < LOQ | PASS |
| 1-Butanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 1-Pentanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 1-Propanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Butanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Butanone | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-methyl-1-propanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Propanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 3-methyl-1-butanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |



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|---------------------------|-------------------------|----------|----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Acetone | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Anisole | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Butyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethanol | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl ether | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl formate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Heptane, n- | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Isobutyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Isopropyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Methyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| N,N- Dimethylsulfoxide | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Pentane, n- | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Propyl acetate | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| t-Butyl Methyl Ether | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Butane, iso- | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Butane, n- | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Propane | USP <467> by GC-MS | 12.5 ppm | NMT 5,000 ppm | < LOQ | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|------------------------------------|---|
| Santé Laboratories | Santé Sample ID: 214012 |
| 8201 East Riverside Drive, STE 650 | Receipt Date: 10/21/2021 / 01:03 PM CST / M. Cardona |
| Austin, Texas 78744 USA | Receipt Condition: Good Analysis Start Date: 10/22/2021 |

ADDITIONAL REPORT NOTES

The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications according to limited defined by AHPA for botanical extracts.

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| | VERSION HISTORY | | | | | |
|---------|--|-----------------|--|--|--|--|
| Version | ersion Effective Date Summary of Changes | | | | | |
| 00 | 11/06/2021 | Initial Release | | | | |

| REVIEWED AND APPROVED BY | | | | | |
|--|---|--|--|--|--|
| DocuSigned by: | | | | | |
| Brian Sloat | 06 November 2021 4:03:03 PM PDT _{DD-MM-YY} | | | | |
| Brian Sloat, Ph.D. 1DA7685D65C740B | Date | | | | |
| Chief Scientific Officer / Quality Manager | | | | | |
| Santé Laboratories | | | | | |

