



2600 North Main St.
 Spanish Fork, UT 84660
 (801) 210-2084

Report Number: 191227 011-02.486
 Date Reported: 1/14/2020

Sample Details

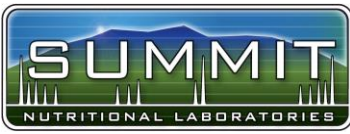
Product #: In Motion - Pain Away
 Description: In Motion - Pain Away Cream 1000mg CBD
 Lot #: 191200
 Received: 12/27/2019 3:12:05 PM
 Sample Details:

Customer Information

Top Health Manufacturing
 1350 Cal Pac Ave
 Spanish Fork, UT 84660

Certificate of Analysis

| Chemistry | Method | Specifications | Result | Units |
|--------------------------------------|----------------------|-----------------------|---------------|--------------|
| Botanicals and Nutraceuticals | | | | |
| CBDV | WI.HPLC.401.01 | | 0.010 | g/100g |
| THCV | WI.HPLC.401.01 | | < 0.005 | g/100g |
| CBD | WI.HPLC.401.01 | | 3.591 | g/100g |
| CBD mg/g | WI.HPLC.401.01 | | 35.906 | mg/g |
| CBD ppm | WI.HPLC.401.01 | | 35906.360 | ppm |
| CBG | WI.HPLC.401.01 | | 0.261 | g/100g |
| CBDA | WI.HPLC.401.01 | | < 0.005 | g/100g |
| CBGA | WI.HPLC.401.01 | | < 0.005 | g/100g |
| CBN | WI.HPLC.401.01 | | < 0.005 | g/100g |
| d9-THC | WI.HPLC.401.01 | | < 0.005 | g/100g |
| d8-THC | WI.HPLC.401.01 | | < 0.005 | g/100g |
| CBC | WI.HPLC.401.01 | | 0.006 | g/100g |
| THCA-A | WI.HPLC.401.01 | | < 0.005 | g/100g |
| Total THC | WI.HPLC.401.01 | | < 0.005 | g/100g |
| Elemental Analysis | | | | |
| Heavy Metals | | | | |
| Arsenic | USP <2232> | | 0.012 | ppm |
| Cadmium | USP <2232> | | < 0.001 | ppm |
| Lead | USP <2232> | | < 0.001 | ppm |
| Mercury | USP <2232> | | < 0.001 | ppm |
| Microbiology | | | | |
| Total Plate Count | USP <2021> | < 10000 | 250000 | cfu/g |
| Total Coliform | Biolumix | < 10 | <10 | cfu/g |
| E.coli | Biolumix | None Detected | None Detected | cfu/10g |
| Salmonella spp. | AOAC 2013.01 <Vidas> | None Detected | None Detected | cfu/25g |
| Staphylococcus aureus | USP <2022> | None Detected | None Detected | cfu/10g |
| Yeasts & Molds | USP <2021> | < 100 | 9500 | cfu/g |



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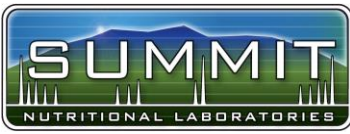
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| Subcontract | Method | Specifications | Result | Units |
|----------------------------|-----------|----------------|---------|-------|
| Pesticides | | | | |
| Acephate | USP <561> | | < 0.100 | ppm |
| Alachlor | USP <561> | | < 0.050 | ppm |
| Aldrin & Dieldrin (sum) | USP <561> | | < 0.050 | ppm |
| Azinphos-ethyl | USP <561> | | < 0.100 | ppm |
| Azinphos-methyl | USP <561> | | < 0.100 | ppm |
| Bromophos-ethyl | USP <561> | | < 0.050 | ppm |
| Bromophos-methyl | USP <561> | | < 0.050 | ppm |
| Bromopropylate | USP <561> | | < 0.100 | ppm |
| Chlordane (sum of c,t,oxy) | USP <561> | | < 0.050 | ppm |
| Chlorfenvinphos | USP <561> | | < 0.100 | ppm |
| Chlorpyrifos-ethyl | USP <561> | | < 0.100 | ppm |
| Chlorpyrifos-methyl | USP <561> | | < 0.100 | ppm |
| Chlorthal-dimethyl | USP <561> | | < 0.010 | ppm |
| Cyfluthrin | USP <561> | | < 0.100 | ppm |
| Cyhalothrin, Lambda | USP <561> | | < 0.100 | ppm |
| Cypermethrin | USP <561> | | < 0.100 | ppm |
| DDT (sum of isomers) | USP <561> | | < 0.100 | ppm |
| Deltamethrin | USP <561> | | < 0.100 | ppm |
| Diazinon | USP <561> | | < 0.100 | ppm |
| Dichlofluanid | USP <561> | | < 0.100 | ppm |
| Dichlorvos | USP <561> | | < 0.100 | ppm |
| Dicofol | USP <561> | | < 0.100 | ppm |
| Dimethoate & Omethoate | USP <561> | | < 0.100 | ppm |
| Dithiocarbamates (CS2) | USP <561> | | < 0.100 | ppm |
| Endosulfans | USP <561> | | < 0.100 | ppm |
| Endrin | USP <561> | | < 0.050 | ppm |
| Ethion | USP <561> | | < 0.100 | ppm |
| Etrimphos | USP <561> | | < 0.050 | ppm |
| Fenchlorophos | USP <561> | | < 0.100 | ppm |
| Fenitrothion | USP <561> | | < 0.100 | ppm |



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| | | | |
|-------------------------|-----------|---------|-----|
| Fenpropathrin | USP <561> | < 0.030 | ppm |
| Fensulfothion | USP <561> | < 0.050 | ppm |
| Fenthion | USP <561> | < 0.050 | ppm |
| Fenvalerate | USP <561> | < 0.100 | ppm |
| Flucythrinate | USP <561> | < 0.050 | ppm |
| Fluvalinate, tau | USP <561> | < 0.050 | ppm |
| Fonophos | USP <561> | < 0.050 | ppm |
| Heptachlor | USP <561> | < 0.050 | ppm |
| HexaChlorcyclohexanes | USP <561> | < 0.100 | ppm |
| Hexachlorobenzene | USP <561> | < 0.100 | ppm |
| Lindane (USP) | USP <561> | < 0.100 | ppm |
| Malathion | USP <561> | < 0.100 | ppm |
| Mecarbam | USP <561> | < 0.050 | ppm |
| Methacriphos | USP <561> | < 0.050 | ppm |
| Methamidophos | USP <561> | < 0.050 | ppm |
| Methidathion | USP <561> | < 0.100 | ppm |
| Methoxychlor | USP <561> | < 0.050 | ppm |
| Mirex | USP <561> | < 0.010 | ppm |
| Monocrotophos | USP <561> | < 0.100 | ppm |
| Parathion-ethyl | USP <561> | < 0.100 | ppm |
| Parathion-methyl | USP <561> | < 0.100 | ppm |
| Pendimethalin | USP <561> | < 0.100 | ppm |
| Petachloroanisol | USP <561> | < 0.010 | ppm |
| Primiphos-ethyl | USP <561> | < 0.050 | ppm |
| Primiphos-methyl | USP <561> | < 0.100 | ppm |
| Procymidone | USP <561> | < 0.100 | ppm |
| Profenophos | USP <561> | < 0.100 | ppm |
| Prothiophos | USP <561> | < 0.050 | ppm |
| Pyrethrins | USP <561> | < 0.100 | ppm |
| Quinalphos | USP <561> | < 0.050 | ppm |
| Pentachloronitrobenzene | USP <561> | < 0.100 | ppm |
| S-421 | USP <561> | < 0.020 | ppm |



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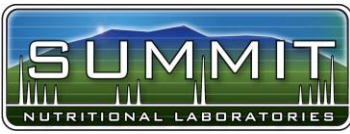
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| Tecnezene | USP <561> | < 0.050 | ppm |
| Tetradifon | USP <561> | < 0.100 | ppm |
| Vinclozolin | USP <561> | < 0.100 | ppm |
| Bromide | USP <561> | < 0.100 | ppm |



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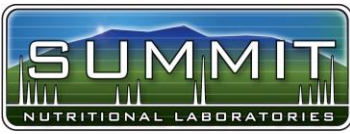
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| | | | |
|---------------------------|-----------|--|----------------|
| Residual Solvent | | | |
| CLASS 1 RESIDUAL SOLVENTS | USP <467> | | < 0.100 |
| Benzene | USP <467> | | < 2.000 ppm |
| Carbon Tetrachloride | USP <467> | | < 4.000 ppm |
| 1,2-Dichloroethane | USP <467> | | < 5.000 ppm |
| 1,1-Dichloroethene | USP <467> | | < 8.000 ppm |
| 1,1,1-Trichloroethane | USP <467> | | < 1500.000 ppm |
| CLASS 2 RESIDUAL SOLVENTS | USP <467> | | < 0.100 |
| Acetonitrile | USP <467> | | < 410.000 ppm |
| Chlorobenzene | USP <467> | | < 360.000 ppm |
| Chloroform | USP <467> | | < 60.000 ppm |
| Cyclohexane | USP <467> | | < 3880.000 ppm |
| 1,2-Dichloroethene | USP <467> | | < 1870.000 ppm |
| 1,2-Dimethoxyethane | USP <467> | | < 100.000 ppm |
| 1,4-Dioxane | USP <467> | | < 380.000 ppm |
| Hexane | USP <467> | | < 290.000 ppm |
| Methanol | USP <467> | | < 3000.000 ppm |
| Methylbutylketone | USP <467> | | < 50.000 ppm |
| Methylcyclohexane | USP <467> | | < 1180.000 ppm |
| Methylene chloride | USP <467> | | < 600.000 ppm |
| Nitromethane | USP <467> | | < 50.000 ppm |
| Pyridine | USP <467> | | < 200.000 ppm |
| Tetrahydrofuran | USP <467> | | < 720.000 ppm |
| Tetralin | USP <467> | | < 100.000 ppm |
| Toluene | USP <467> | | < 890.000 ppm |
| Trichloroethylene | USP <467> | | < 80.000 ppm |
| Xylene | USP <467> | | < 2170.000 ppm |
| Cumene | USP <467> | | < 70.000 ppm |
| CLASS 3 RESIDUAL SOLVENTS | USP <467> | | < 0.100 |
| Acetone | USP <467> | | < 200.000 ppm |
| Anisole | USP <467> | | < 200.000 ppm |
| 1-Butanol | USP <467> | | < 200.000 ppm |



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| | | | |
|---------------------------------|-----------|------------|-----|
| 2-Butanol | USP <467> | < 200.000 | ppm |
| Acetic Acid | USP <467> | < 200.000 | ppm |
| tert-Butylmethyl ether | USP <467> | < 200.000 | ppm |
| Ethanol | USP <467> | < 200.000 | ppm |
| Ethyl Acetate | USP <467> | < 200.000 | ppm |
| Ethyl ether | USP <467> | < 200.000 | ppm |
| Ethyl formate | USP <467> | < 200.000 | ppm |
| Heptane | USP <467> | < 200.000 | ppm |
| Isobutyl acetate | USP <467> | < 200.000 | ppm |
| Isopropyl acetate | USP <467> | < 200.000 | ppm |
| Methyl Acetate | USP <467> | < 200.000 | ppm |
| 3-methyl-1-butanol | USP <467> | < 200.000 | ppm |
| Methylethylketone | USP <467> | < 200.000 | ppm |
| Methylisobutylketone | USP <467> | < 200.000 | ppm |
| 2-Methyl-1-propanol | USP <467> | < 200.000 | ppm |
| Pentane | USP <467> | < 200.000 | ppm |
| Propyl acetate | USP <467> | < 200.000 | ppm |
| Total Class 3 Residual Solvents | USP <467> | < 5000.000 | ppm |

Report Approved by: 
 Joel Nelson
 Laboratory Manager

*= Please review Client Specifications

Report Numbers that have been revised or amended will include a revision number.

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