

SUMMARY OF ANALYSIS (SAMPLE ID: SA30575)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2097 Pocono Pharmaceutical 100 Sweetree St Cherryville, NC 28021 License: Not Entered or N/A	Order ID: OR9650 Lot Number: NPP67.1 Batch Number: N/A	Sample Type: Primary Matrix: Patch Mass: 0.34g Date Collected: 01/06/2022 Date Received: 01/11/2022
Cultivar (Strain) or Sample Description: Sleep - Turn-Key Patch			Date Completed: 01/13/2022

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture Content (%)

Not Tested

Water Activity (aw)

Not Tested

PASS/FAIL

N/A

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
CBD	2.89	28.9
CBG	0.159	1.59
CBDa	-	-
TOTAL CBD	2.89	28.9
TOTAL THC	-	-
TOTAL CANNABINOIDS	3.05	30.5

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA30575)

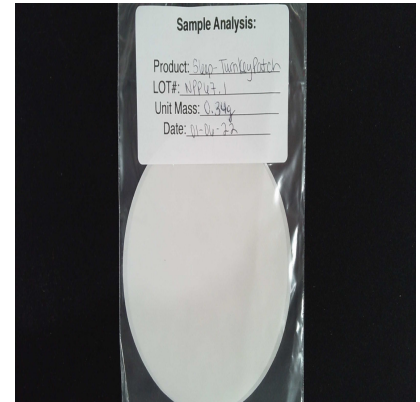
Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2097 Pocono Pharmaceutical 100 Sweetree St Cherryville, NC 28021 License: Not Entered or N/A	Order ID: OR9650 Lot Number: NPP67.1 Batch Number: N/A	Sample Type: Primary Matrix: Patch Mass: 0.34g Date Collected: 01/06/2022 Date Received: 01/11/2022
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Cultivar (Strain) or Sample Description: Sleep - Turn-Key Patch **Date Completed:** 01/13/2022

CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

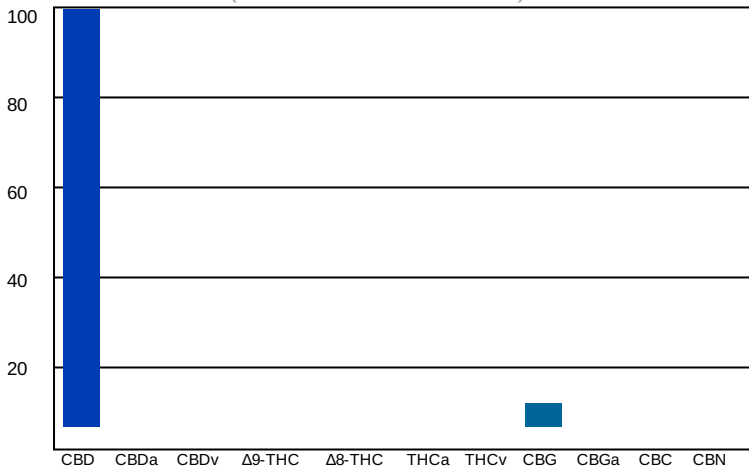
Analysis Date/Time: 1/12/2022 1246 **Method:** HPLC/DAD **Moisture Content (%):** -
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBD	2.89	0.260	28.9	0.431	-	9.83	9.83
CBDa	-	-	-	0.431	-	-	-
CBDv	DET	-	DET	0.431	-	-	-
Δ9-THC	-	-	-	0.431	-	-	-
Δ8-THC	-	-	-	0.431	-	-	-
THCa	-	-	-	0.431	-	-	-
THCv	-	-	-	0.431	-	-	-
CBC	-	-	-	0.431	-	-	-
CBG	0.159	0.0207	1.59	0.431	-	0.540	0.540
CBGa	DET	-	DET	0.431	-	-	-
CBN	-	-	-	0.431	-	-	-
TOTAL	3.05	0.281	30.5			10.4	10.4
TOTAL THC	-	-	-			-	-
TOTAL CBD	2.89	0.260	28.9			9.83	9.83



SERVING MASS (g): 0.340
SERVINGS/UNIT: 1

Cannabinoid Distribution
(% of Total Cannabinoids)



"-" Not detected above RL.

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110%
Replicate Uncertainties: <5% RSD, <20% RPD
Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total THC = (THCa x 0.877) + Δ9-THC
Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass.
mg/g results are reported as mass component per mass material.

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than RL)

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RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)

Analysis Date/Time: 1/11/2022 1722	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	39.8	79.7	5000	n-Heptane (142-82-5)	-	39.8	79.7	5000
Acetonitrile (75-5-8)	-	39.8	79.7	410	n-Hexane (110-54-3)	-	13.9	27.9	290
Benzene (71-43-2)	-	0.398	0.797	2	Isobutane (75-28-5)	-	39.8	79.7	5000
n-Butane (106-97-2)	-	39.8	79.7	5000	Isopropanol (67-63-0)	-	39.8	79.7	5000
1-Butanol (71-36-3)	-	39.8	79.7	5000	Isopropyl acetate (108-21-4)	-	39.8	79.7	5000
2-Butanol (78-92-2)	-	39.8	79.7	5000	Isopropyl benzene (98-82-8)	-	3.98	7.97	70
2-Butanone (78-93-3)	121.0	39.8	79.7	5000	Methanol (67-56-1)	-	39.8	79.7	3000
Cyclohexane (110-82-7)	-	39.8	79.7	3880	2-Methylbutane (78-78-4)	-	39.8	79.7	5000
1,2-Dimethoxyethane (110-71-4)	-	3.98	7.97	100	Methylene chloride (75-9-2)	-	39.8	79.7	600
N,N-Dimethylacetamide (127-19-5)	-	39.8	79.7	1090	2-Methylpentane (107-83-5)	DET	13.9	27.9	290
2,2-Dimethylbutane (75-83-2)	-	13.9	27.9	290	3-Methylpentane (96-10-0)	-	13.9	27.9	290
2,3-Dimethylbutane (79-29-8)	DET	13.9	27.9	290	n-Pentane (109-66-0)	-	39.8	79.7	5000
N,N-Dimethylformamide (68-12-2)	-	39.8	79.7	880	1-Pentanol (71-41-0)	-	39.8	79.7	5000
Dimethylsulfoxide (67-68-5)	-	39.8	79.7	5000	n-Propane (74-98-6)	-	39.8	79.7	5000
1,4-Dioxane (123-91-1)	-	39.8	79.7	380	1-Propanol (71-23-8)	-	39.8	79.7	5000
Ethanol (64-17-5)	-	39.8	79.7	5000	Pyridine (110-86-1)	-	13.9	27.9	200
2-Ethoxyethanol (110-80-5)	-	13.9	27.9	160	Tetrahydrofuran (109-99-9)	-	39.8	79.7	720
Ethyl ether (60-29-7)	-	39.8	79.7	5000	Tetramethylene sulfone (126-33-0)	-	13.9	27.9	160
Ethyl acetate (141-78-6)	-	39.8	79.7	5000	Toluene (108-88-3)	-	39.8	79.7	890
Ethyl benzene (100-41-4)	-	39.8	79.7	2170	o-Xylene (95-47-6)	-	39.8	79.7	2170
Ethylene glycol (107-21-1)	-	39.8	79.7	620	m,p-Xylene (108-38-3 or 106-42-3)	-	39.8	79.7	2170
					Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"*" - o,m,p-Xylene and Ethylbenzene

Action levels are referenced from the State of Arkansas MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 1/13/2022 1033
Analyst: KF

Method: LC/MS/MS
Instrument: Shimadzu LC-8050

Deviations from SOP:
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0114	0.0909	0.5	Kresoxim-methyl (143390-89-0)	-	0.0114	0.0909	0.4
Acephate (30560-19-1)	-	0.0114	0.0909	0.4	Malathion (121-75-5)	-	0.0114	0.0909	0.2
Acequinocyl (57960-19-7)	-	0.0114	0.0909	2	Metalaxyl (57837-19-1)	-	0.0114	0.0909	0.2
Acetamiprid (135410-20-7)	-	0.0114	0.0909	0.2	Methiocarb (2032-65-7)	-	0.0114	0.0909	0.2
Aldicarb (116-06-3)	-	0.0114	0.0909	0.4	Methomyl (16752-77-5)	-	0.0114	0.0909	0.4
Azoxystrobin (131860-33-8)	-	0.0114	0.0909	0.2	Methyl parathion (298-0-0)	-	0.0114	0.0909	0.2
Bifenazate (149877-41-8)	-	0.0114	0.0909	0.2	MGK 264 (113-48-4)	-	0.0114	0.0909	0.2
Bifenthrin (82657-04-3)	-	0.0114	0.0909	0.2	Myclobutanil (88671-89-0)	-	0.0114	0.0909	0.2
Boscalid (188425-85-6)	-	0.0114	0.0909	0.4	Naled (300-76-5)	-	0.0114	0.0909	0.5
Carbaryl (63-25-2)	-	0.0114	0.0909	0.2	Oxamyl (23135-22-0)	-	0.0114	0.0909	1
Carbofuran (1563-66-2)	-	0.0114	0.0909	0.2	Pacllobutrazol (76738-62-0)	-	0.0114	0.0909	0.4
Chlorantraniliprole (800008-45-7)	-	0.0114	0.0909	0.2	Permethrins (52645-53-1)	-	0.0114	0.0909	0.2
Chlorfenapyr (122453-73-0)	-	0.0114	0.0909	1	Phosmet (732-11-6)	-	0.0114	0.0909	0.2
Chlorpyrifos (2921-88-2)	-	0.0114	0.0909	0.2	Piperonyl butoxide (51-03-6)	-	0.0114	0.0909	2
Clofentezine (74115-24-5)	-	0.0114	0.0909	0.2	Prallethrins (2331-36-9)	-	0.0114	0.0909	0.2
Cyfluthrin (68359-37-5)	-	0.0114	0.0909	1	Propiconazole (60207-90-1)	-	0.0114	0.0909	0.4
Cypermethrin (52315-07-8)	-	0.0114	0.0909	1	Propoxur (114-26-1)	-	0.0114	0.0909	0.2
Daminozide (1596-84-5)	-	0.0114	0.0909	1	Pyrethrins (8003-34-7)	-	0.0114	0.0909	1
DDVP (62-73-7)	-	0.0114	0.0909	0.1	Pyridaben (96489-71-3)	-	0.0114	0.0909	0.2
Diazinon (333-41-5)	-	0.0114	0.0909	0.2	Spinosad (168316-95-8)	-	0.0114	0.0909	0.2
Dimethoate (60-51-5)	-	0.0114	0.0909	0.2	Spiromesifen (283594-90-1)	-	0.0114	0.0909	0.2
Ethoprophos (13194-48-4)	-	0.0114	0.0909	0.2	Spirotetramat (203313-25-1)	-	0.0114	0.0909	0.2
Etofenprox (80844-07-1)	-	0.0114	0.0909	0.4	Spiroxamine (118134-30-8)	-	0.0114	0.0909	0.4
Etoxazole (153233-91-1)	-	0.0114	0.0909	0.2	Tebuconazole (80443-41-0)	-	0.0114	0.0909	0.4
Fenoxycarb (72490-01-8)	-	0.0114	0.0909	0.2	Thiacloprid (111988-49-9)	-	0.0114	0.0909	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0114	0.0909	0.4	Thiamethoxam (153719-23-4)	-	0.0114	0.0909	0.2
Fipronil (120068-37-3)	-	0.0114	0.0909	0.4	Trifloxystrobin (141517-21-7)	-	0.0114	0.0909	0.2
Fonicamid (158062-67-0)	-	0.0114	0.0909	1					
Fludioxinil (131341-86-1)	-	0.0114	0.0909	0.4					
Hexythiazox (78587-05-0)	-	0.0114	0.0909	1					
Imazalil (35554-44-0)	-	0.0114	0.0909	0.2					
Imidacloprid (138261-41-3)	-	0.0114	0.0909	0.4					



Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ
"- " not detected above LOD

Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 1/13/2022 1412 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	50.5	95.9	200
Cadmium (Cd)	-	50.5	95.9	200
Lead (Pb)	-	50.5	95.9	500
Mercury (Hg)	DET	50.5	95.9	100



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key



"DET" detected less than LOQ
"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 01/12/2022 0954 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count	30	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	Absent	-
Salmonella spp.	Absent	-
Staphylococcus aureus	Absent	-



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested
Absent - Not Detected Above RL, Present - Detected Above RL

Color Key



Reporting Limit (CFU/g)
1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.
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