Current page(s) of operating plan or supplemental operating plan being amended.

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

What is this form?

This operating plan supplemental form is required for all applicants seeking a marijuana product manufacturing facility license and must accompany the **Marijuana Establishment Operating Plan (Form MJ-01)**, per 3 AAC 306.020(b)(11). Applicants should review **Chapter 306: Article 5** of the **Alaska Administrative Code.** This form will be used to document how an applicant intends to meet the requirements of those regulations. If your business has a formal operating plan, you may include a copy of that operating plan with your application, but all fields of this form must still be completed per 3 AAC 306.020 and 3 AAC 306.520(3).

What additional information is required for product manufacturing facilities?

Applicants must identify how the proposed establishment will comply with applicable regulations regarding the following:

- Prohibitions
- Equipment, compounds, and processes to be used
- Proposed marijuana concentrates and marijuana products
- Proposed product packaging and sample labels
- Waste disposal plan
- Testing

This form must be submitted to AMCO's main office before any marijuana product manufacturing facility license application will be considered complete.

Section 1 – Establishment Information

Enter information for the business seeking to be licensed, as identified on the license application.

Licensee:	Herban Extracts, LLC	**License Number:**	14432		
License Type:	Marijuana Product Manufacturing Facility				
Doing Business As:	HERBAN EXTRACTS, LLC				
Premises Address:	14927 Kenai Spur Highway				
City:	Kenai	**State:**	ALASKA	**ZIP:**	99611

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 2 – Prohibitions

Applicants should review 3 AAC 306.510 and be able to answer "Agree" to all items below.

The marijuana product manufacturing facility will not:	Agree	Disagree
Sell, deliver, distribute, or transfer any marijuana, marijuana concentrate, or a marijuana product directly to a consumer, with or without compensation	✓	☐
Allow any person, including a licensee, employee, or agent, to consume marijuana, marijuana concentrate, or a marijuana product on its licenses premises	✓	☐

The marijuana product manufacturing facility will not manufacture or sell any product that:	Agree	Disagree
Is an adulterated food or drink	✓	☐
Closely resembles a familiar food or drink item including candy	✓	☐
Is packaged to look like candy, or in bright colors or with cartoon characters or other pictures or images that would appeal to children	✓	☐

Section 3 – Equipment, Compounds, and Processes to be Used

Review the requirements under 3 AAC 306.555, and identify how the proposed premises will meet the listed requirements.

Describe the equipment and solvents, gases, chemicals, and other compounds the marijuana product manufacturing facility will use to create marijuana concentrates:

Equipment: closed looped rotary evaporator, closed loop extractor machine, vacuum, freezer, vacuum oven, Centrifuge, Büchner funnel, grinder, chillers, short-path distillation equipment, water bath, ultrasonic cleaner, scale. For packaging the products we will have a manual cartridge filling machine, an automatic cartridge filling machine, and label printing machine.

Solvents: CO2, food grade ethanol

Compounds: food-grade hemp oil, food-grade propylene glycol, activated charcoal,

Gases: CO2

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Describe the processes to be used to create marijuana concentrates:

CO2 Concentrate Oil: This cannabis concentrate oil is produced using CO2 as a solvent in a closed loop system, The CO2 is compressed into a liquid form which saturates the cannabis material and extracts the desired cannabinoids, terpenes, or flavonoids using different pressures and temperatures. As the CO2 is warmed back up after extraction, it turns back into a gas (which is recovered), which causes the cannabis oil to separate into a collection container. The oil will undergo further refining to remove the plant waxes thru a process called winterization. Winterization involves the oil with plant waxes to be mixed with food grade ethanol and placed in a freezer for several days. The ethanol/oil mixture then gets centrifuged to help separate the plant waxes from the oil. This winterization step gets repeated. The ethanol mixture then gets mixed with activated charcoal and then filtered so that what remains is an oil/ethanol mixture. This filtered ethanol/ oil mixture will then have the ethanol evaporated off using a closed looped rotary evaporator. Some of the oil from the CO2 extractor will also go thru further refinement to isolate specific cannabinoids, terpenes, or flavonoids. This process is known as “fractional” or “short path distillation”, and is known to produce single compound oils that can reach 99% purity. Short path distillation uses vacuum pressure, steam, and heat to manipulate boiling points so that compounds are subjected to much cooler temperatures when they pass through. Depending on the distillation process, these volatile compounds can either be fractioned individually or simultaneously for collection. These isolated molecules may be reintroduced to the oil after being isolated, or sold as a distillate. If the CO2 oil produced will be sold in cartridges or syringes for vaporization, the oil is ready to be put in the cartridges and syringes. If the CO2 oil is going to be sold to other marijuana product manufacturers for edible manufacturing, it may be decarboxylated first by heating the CO2 oil in a vacuum oven for a specific amount of time.

Pull & Snap: This cannabis concentrate oil is produced using CO2 as a solvent in a closed loop system, The CO2 is compressed into a liquid form which saturates the cannabis material and extracts the desired cannabinoids, terpenes, or flavonoids using different pressures and temperatures. As the CO2 is warmed back up after extraction, it turns back into a gas (which is recovered), which causes the cannabis oil to separate into a collection container. The oil will undergo further refining to remove the plant waxes thru a process called winterization. Winterization involves the oil with plant waxes to be mixed with food grade ethanol and placed in a freezer for several days. The ethanol/oil mixture then gets centrifuged to help separate the plant waxes from the oil. This winterization step gets repeated. The ethanol mixture then gets mixed with activated charcoal and then filtered so that what remains is an oil/ethanol mixture. This filtered ethanol/oil mixture will then have the ethanol evaporated off using a closed looped rotary evaporator. Some of the oil from the CO2 extractor will also go through further refinement to isolate specific cannabinoids, terpenes, or flavonoids. This process is known as “fractional” or “short path distillation”, and is known to produce single compound oils that can reach 99% purity. Short path distillation uses vacuum pressure, steam, and heat to manipulate boiling points so that compounds are subjected to much cooler temperatures when they pass through. Depending on the distillation process, these volatile compounds can either be fractioned individually or simultaneously for collection. These isolated molecules may be reintroduced to the oil after being isolated. After the ethanol has been evaporated from the oil in the rotary evaporator and any specific molecules reintroduced to the oil, it will be placed in a vacuum oven overnight before it is finished and ready for packaging.

Ethanol Concentrate Oil: This cannabis concentrate is produced using food grade ethanol as a solvent to extract the oil. The cannabis material is soaked and washed in ethanol. The ethanol solution dissolves all extractable matter from the cannabis material and contains cannabis oil along with unwanted plant material. The ethanol solution is filtered to remove the unwanted plant material and what remains is the cannabis oil in ethanol. This solution will be placed in a closed loop rotary evaporator to separate the cannabis oil from the ethanol. The ethanol is recaptured in this process to be used again. If the oil is too viscous for use in a vapor cartridge, plant derived terpenes, food grade hemp oil, or food grade propylene glycol will be introduced to the oil to make it the proper viscosity for vaping. If the oil is going to be sold to other marijuana product manufacturers for edible manufacturing, it may be decarboxylated first by heating the oil in a vacuum oven for a specific amount of time.

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	CO2 Concentrate Oil (for inhalation via vaporization)
Type:	Concentrate for Refillable Vapor Cartridges

Product Description: Details must include the color, shape, and texture.	CO2 Concentrate Oil will vary in color from a very light amber to dark amber and will come in different strains, including different cannabinoids, terpene profiles, flavonoids, and distillates. The oil is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	CO2 concentrate oil is produced using CO2 as a solvent in a closed loop system (see process outlined on page 3 for further details). After extraction, the oil is refined through winterization and then may be further refined through fractionation.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	CO2 Concentrate Oil (for inhalation via vaporization)
Type:	Concentrate for Refillable Vapor Cartridges

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	.5 to 1 gram of CO2 concentrate oil will be packaged in a plastic or glass syringe (81.5 mm long) with the total THC ranging from 50-99% (the actual THC content will be listed on the label per testing results). The syringe will be placed into a clear, child-resistant plastic tube and then into a paperboard box, approximately 4"H x 2"W x 1"D, with a tamper seal. Herban Extracts will provide retail stores with fully opaque exit bags to place the boxes into before customers leave the store.	

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out. *Logo color will vary depending on strain	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridges
Type:	CO2 Concentrate Oil (for inhalation via vaporization)

Product Description: Details must include the color, shape, and texture.	The concentrate within the vape cartridges varies in color from a bright yellow to an amber color and is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	CO2 concentrate oil is produced using CO2 as a solvent in a closed loop system (see process outlined on page 3 for further details). After extraction, the oil is refined through winterization and then may be further refined through fractionation. The oil will then be loaded into the vape cartridges.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

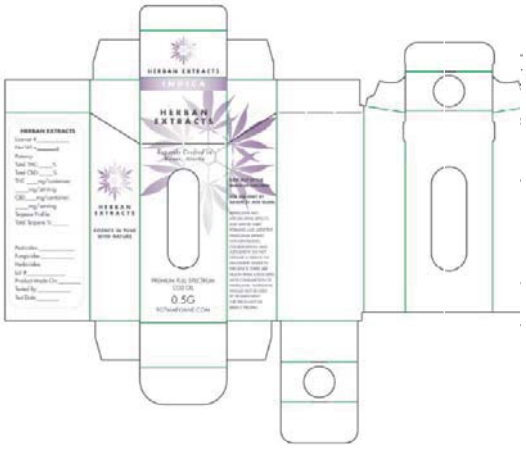
Operating Plan Supplemental

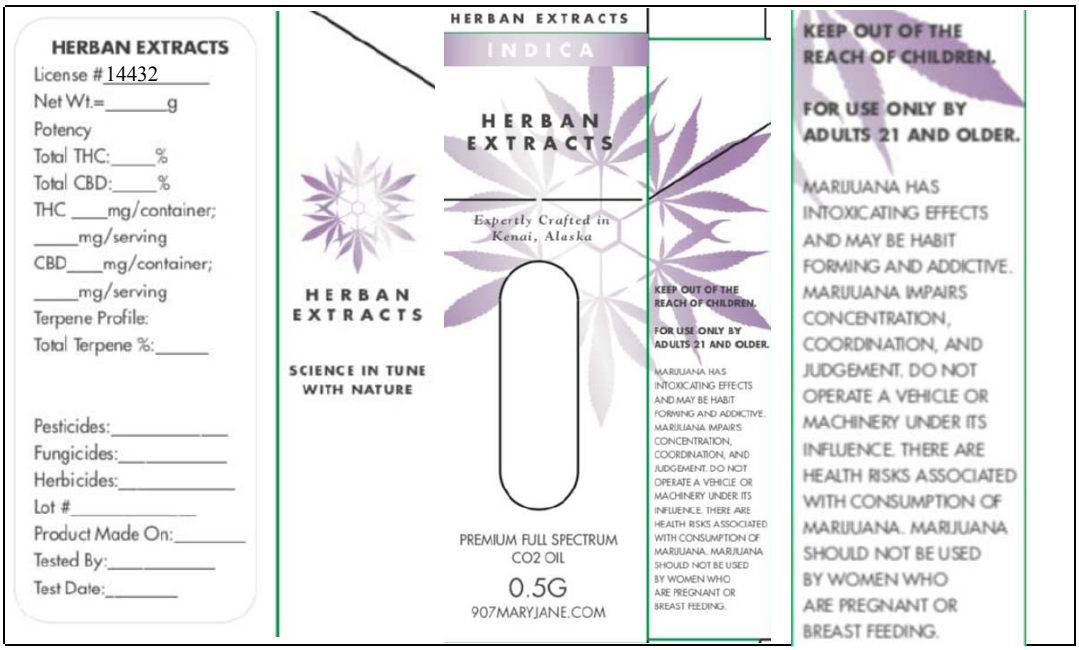
Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridges
Type:	CO2 Concentrate Oil - (for inhalation via vaporization)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	.5 to 1 gram of CO2 concentrate oil will be packaged in plastic or glass 59mm cartridges. The total THC will range from 50-99% with the actual THC content listed on the label per the testing results. The filled cartridge will be placed into a child-resistant, clear, plastic tube and then inserted into a paperboard box . The box is approximately 4"H x 2"W x 1"D and will have a tamper seal sticker. Herban Extracts will provide retail stores with fully opaque exit bags to place the boxes into before the customer leaves the store.	

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out. *Logo color will vary depending on strain	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridge with E-pen Kit
Type:	CO2 Concentrate Oil (for inhalation via vaporization)

Product Description: Details must include the color, shape, and texture.	CO2 concentrate oil vape cartridges with e-pen and battery charge kit. The concentrate color will range from very light amber to dark amber and will come in different strains, including different cannabinoids, terpene profiles, flavonoids, and distillates. The oil is a thick, sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	CO2 concentrate oil is produced using CO2 as a solvent in a closed loop system (see process outlined on page 3 for further details). After extraction, the oil is refined through winterization and then may be further refined through fractionation. The oil will then be loaded into the vape cartridges.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

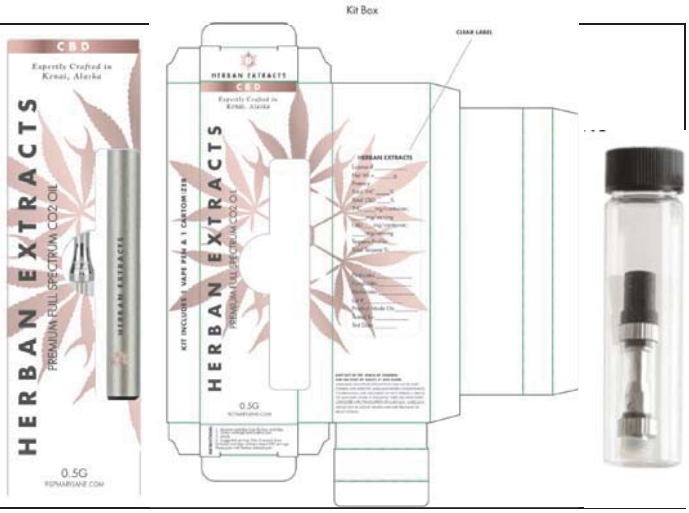
Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridge with E-pen Kit
Type:	CO2 Concentrate (for inhalation via vaporization)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	.5 to 1 gram of CO2 concentrate will be packaged in plastic or glass 59mm cartridges. The total THC will range from 50-99% with the actual THC content listed on the label per the testing results. The filled cartridge will be placed into a child-resistant, clear, plastic tube and then inserted into a paperboard box with an e-pen and battery charger. The box is approximately 7"H x 2"W x 1"D and will have a tamper seal sticker. Herban Extracts will provide retail stores with fully opaque exit bags to place the boxes into before the customer leaves the store.	

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	**KEEP OUT OF THE REACH OF CHILDREN.** **FOR USE ONLY BY ADULTS 21 AND OLDER.** MARIJUANA HAS INTOXICATING EFFECTS AND MAY BE HABIT FORMING AND ADDICTIVE. MARIJUANA IMPAIRS CONCENTRATION, COORDINATION, AND JUDGEMENT. DO NOT OPERATE A VEHICLE OR MACHINERY UNDER ITS INFLUENCE. THERE ARE HEALTH RISKS ASSOCIATED WITH CONSUMPTION OF MARIJUANA. MARIJUANA SHOULD NOT BE USED BY WOMEN WHO ARE PREGNANT OR BREAST FEEDING. *Logo color will vary depending on strain	**HERBAN EXTRACTS** License # 14432 Net Wt.=_____g Potency Total THC:____% Total CBD:____% THC ____mg/container; ____mg/serving CBD____mg/container; ____mg/serving Terpene Profile: Total Terpene %:_____ Pesticides:_____ Fungicides:_____ Herbicides:_____ Lot #_____ Product Made On:_____ Tested By:_____ Test Date:_____

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Wholesale CO2 Concentrate Oil - decarboxylated or not decarboxylated
Type:	Bulk Concentrate for Wholesale

Product Description: Details must include the color, shape, and texture.	CO2 concentrate oil to be sold in bulk to other product manufacturing facilities for use in manufacturing marijuana edible products. CO2 Concentrate Oil will vary in color from a very light amber to dark amber and will come in different strains, including different cannabinoids, terpene profiles, flavonoids, and distillates. The oil is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	CO2 concentrate oil is produced using CO2 as a solvent in a closed loop system (see process outlined on page 3 for further details). After extraction, the oil is refined through winterization and then may be further refined through fractionation. The oil may be decarboxylated in an oven if the purchasing manufacturing facility wishes the oil to be in a THC activated form.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Wholesale CO2 Oil - decarboxylated or not decarboxylated
Type:	Bulk Concentrate for Wholesale

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Wholesale CO2 oil sold in bulk to other licensed manufacturing facilities will be packaged in glass jars up to 1 pound for use in manufacturing marijuana edible products. THC content will range from 50-99%.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Produced By: Herban Extracts License Number: 14432 Product Name: Wholesale CO2 Oil Batch/Lot Number: Gross Weight: Net MJ Weight: Packaging Date: Best By Date: Strain: Tested By: License Number: Total THC: THCA: CBD: CBDA: CBN: Microbial Test: Pesticides: Herbicides: Fungicides: Residual Solvent Test: Contaminants Test Result: Retailer: License Number: HERBAN EXTRACTS Expertly Crafted in Kenai, Alaska **Alaska Safety Warning**: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Pull & Snap
Type:	CO2 Concentrate (for inhalation via dabbing)

Product Description: Details must include the color, shape, and texture.	This cannabis oil has a very particular consistency. Pull & Snap is known to be neither too runny nor too solid at room temperature. Because of its consistency existing somewhere between wax and shatter, it stretches when pulled before breaking off with a signature snapping sound. The color will range from very light amber to dark amber and will come in different strains, including different cannabinoids, or terpene profiles.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	Pull & Snap is produced using CO2 as a solvent in a closed loop system (see process outlined on page 3 for further details). After extraction, the oil is refined through winterization and then may be further refined through fractionation and then placed into a vacuum oven.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

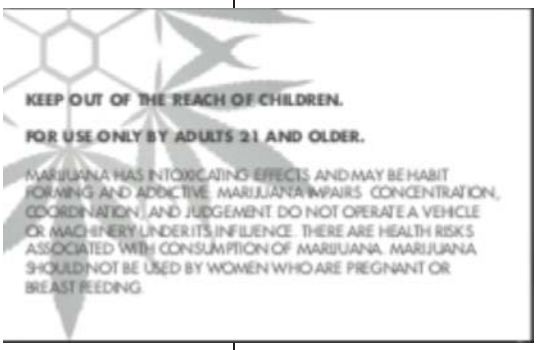
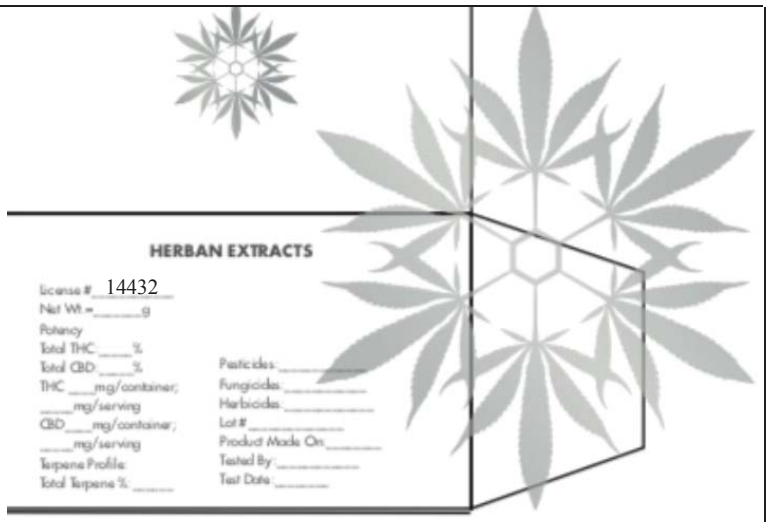
Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

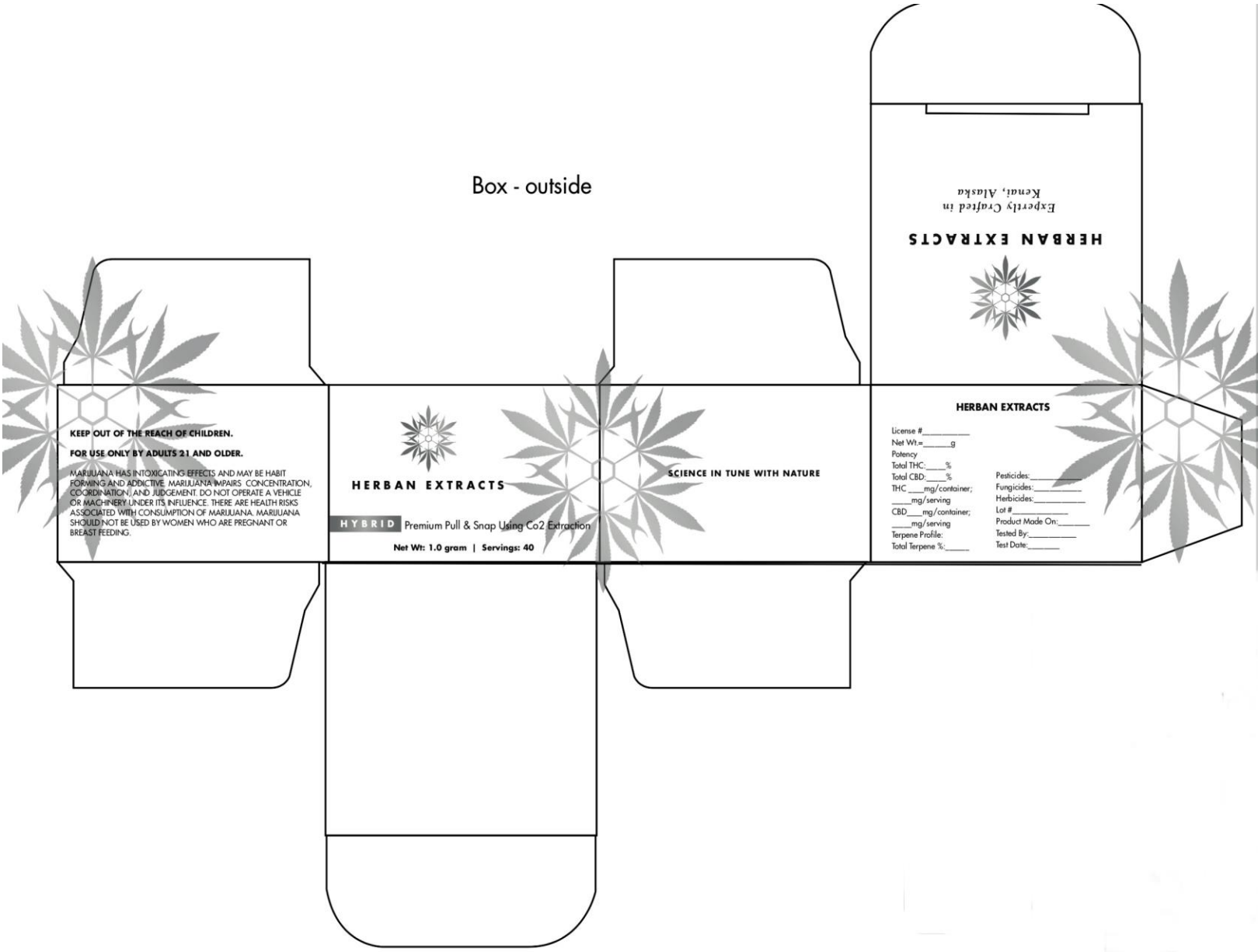
Product Name:	Pull & Snap
Type:	CO2 Concentrate (for inhalation via dabbing)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	One gram of Pull & Snap will be packaged in 5 ml, round, child-resistant containers with a screw top lid. The total THC will range from 50-99% (the actual THC content will be listed on the label per testing results). The container will be placed into a 1 9/16" x 1 9/16" x 1 1/4" paperboard box with a tamper seal. Herban Extracts will provide retail stores with fully opaque exit bags to place the boxes into before customers leave the store.
Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	 

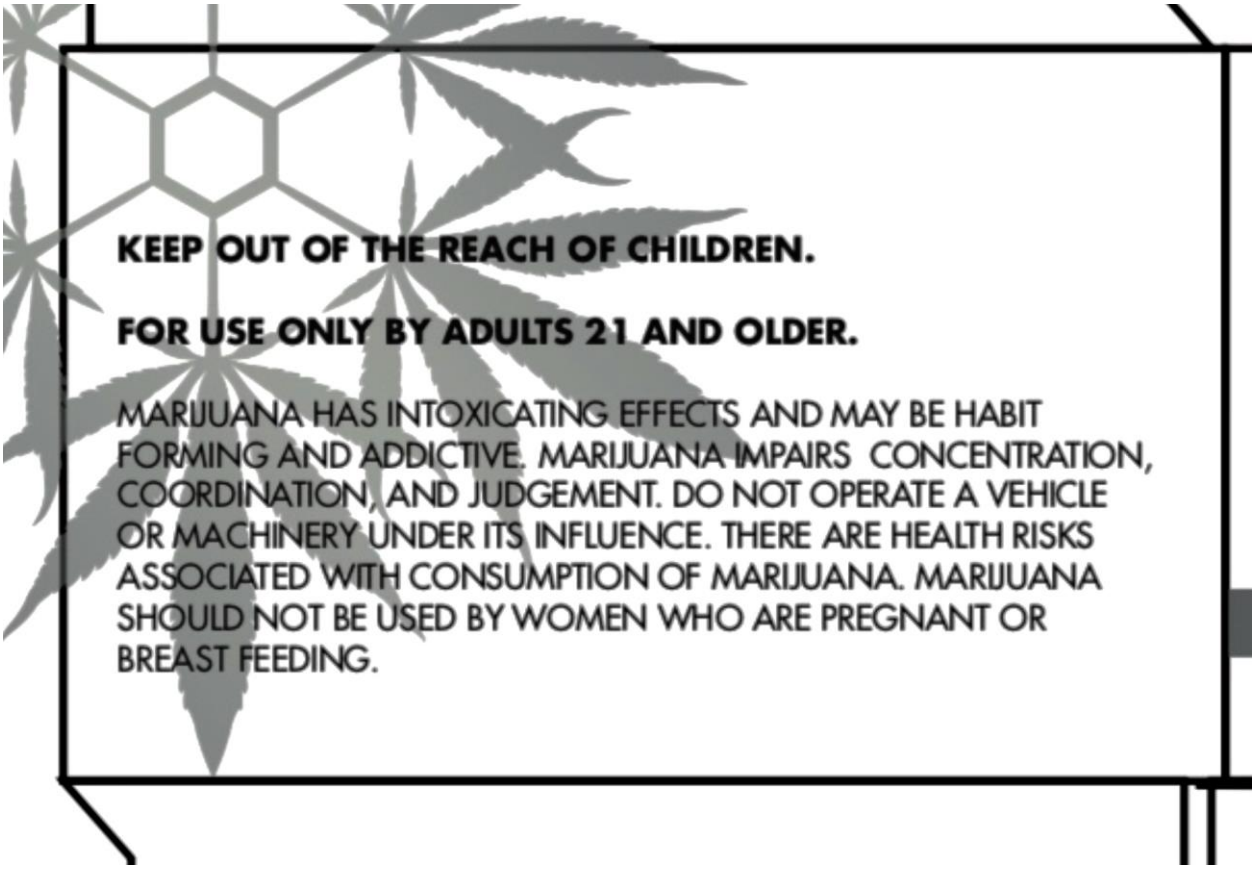
Received by AMCO 12.04.17

Received by AMCO 4.18.18

Box - outside



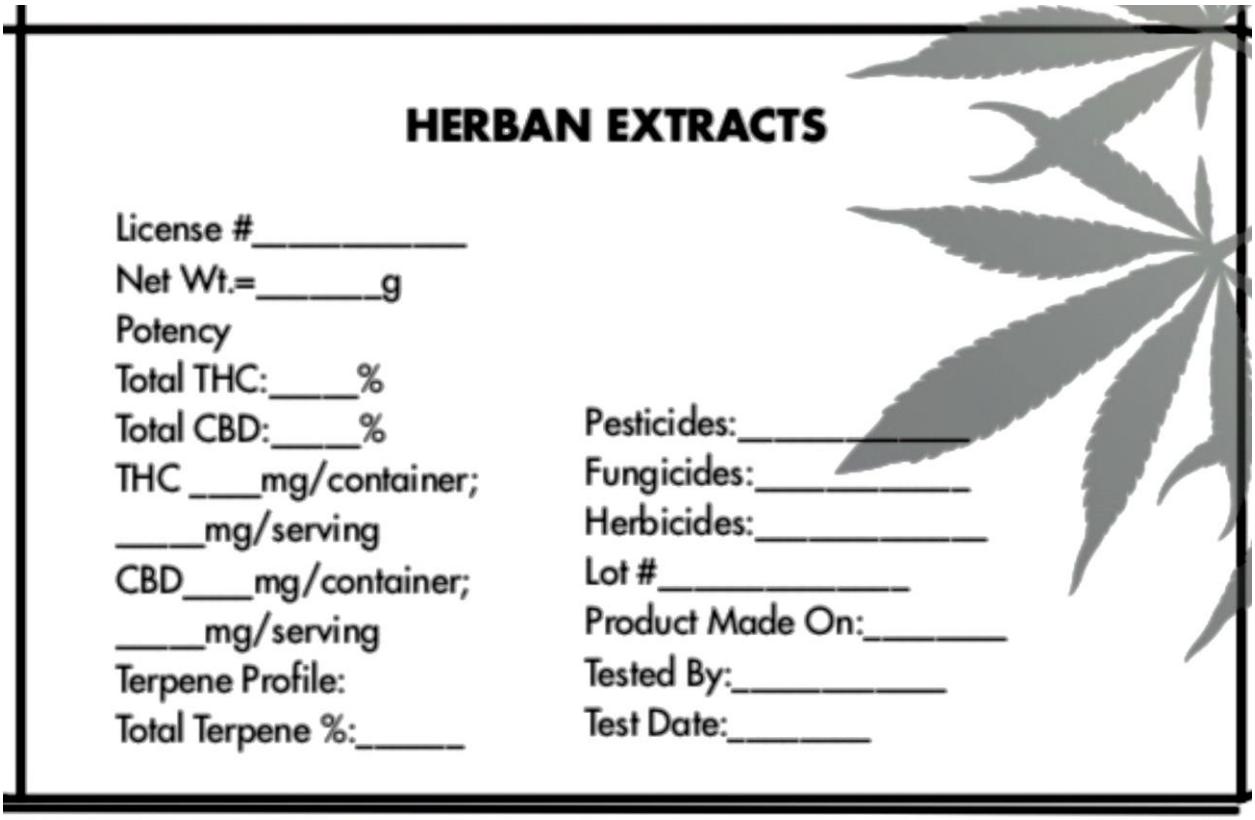
Received by AMCO 4.18.18



Closeup of box side with warning label:

Received by AMCO 4.18.18

Close up of boxes side with testing label:



HERBAN EXTRACTS

License #_____
Net Wt.=_____g
Potency
Total THC:_____%
Total CBD:_____%
THC ____mg/container;
_____mg/serving
CBD____mg/container;
_____mg/serving
Terpene Profile:
Total Terpene %:_____

Pesticides:_____
Fungicides:_____
Herbicides:_____
Lot #_____
Product Made On:_____
Tested By:_____
Test Date:_____

Received by AMCO 4.18.18

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Ethanol Concentrate Oil (for inhalation via vaporization)
Type:	Ethanol Concentrate for Refillable Vapor Cartridges

Product Description: Details must include the color, shape, and texture.	The ethanol concentrate oil varies in color from a bright yellow to an amber color and is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	Ethanol concentrate oil is produced using ethanol as a solvent to extract the oil (see process outlined on page 3 for further details). After extraction the oil is refined in a closed loop system to remove the ethanol and recapture the ethanol for reuse. The oil will then be loaded into the syringes.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

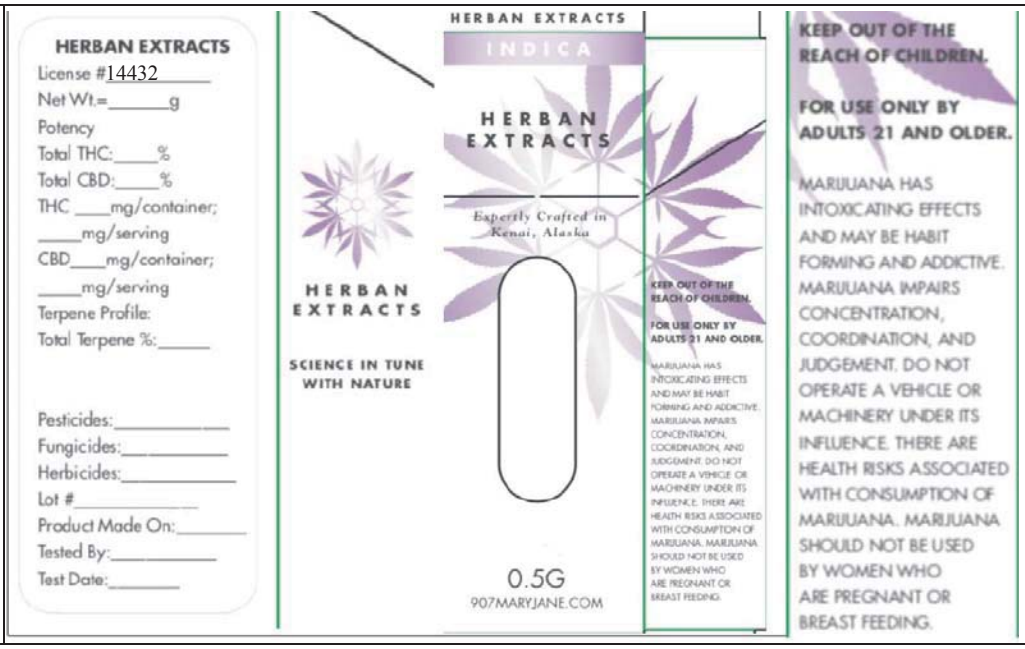
Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Ethanol Concentrate Oil (for inhalation via vaporization)
Type:	Ethanol Concentrate for Refillable Vapor Cartridges

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	0.5 to 1 gram of ethanol concentrate oil will be packaged in a plastic or glass syringe (81.5 mm long) with the total THC ranging from 50-99% (the actual THC content will be listed on the label per the testing results). The syringe will be placed into a clear, child-resistant, plastic tube and then into a paperboard box approximately 4.25"H x 2"W x 1.25"D. Herban Extracts will provide the retail store with fully opaque exit bags to place the boxes into before customers leave the store.	

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out. *Logo color will vary depending on strain	HERBAN EXTRACTS License #14432_____ Net Wt.=_____g Potency Total THC:____% Total CBD:____% THC ____mg/container; _____mg/serving CBD____mg/container; _____mg/serving Terpene Profile: Total Terpene %:_____ Pesticides:_____ Fungicides:_____ Herbicides:_____ Lot #_____ Product Made On:_____ Tested By:_____ Test Date:_____	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridges
Type:	Ethanol Concentrate Oil (for inhalation via vaporization)

Product Description: Details must include the color, shape, and texture.	The ethanol concentrate oil within the vape cartridge varies in color from bright yellow to an amber color and is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	Ethanol concentrate oil is produced using ethanol as a solvent to extract the oil (see process outlined on page 3 for further details). After extraction, the oil is refined in a closed loop system to remove the ethanol and recapture the ethanol for reuse. The oil will then be loaded into the vape cartridges.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

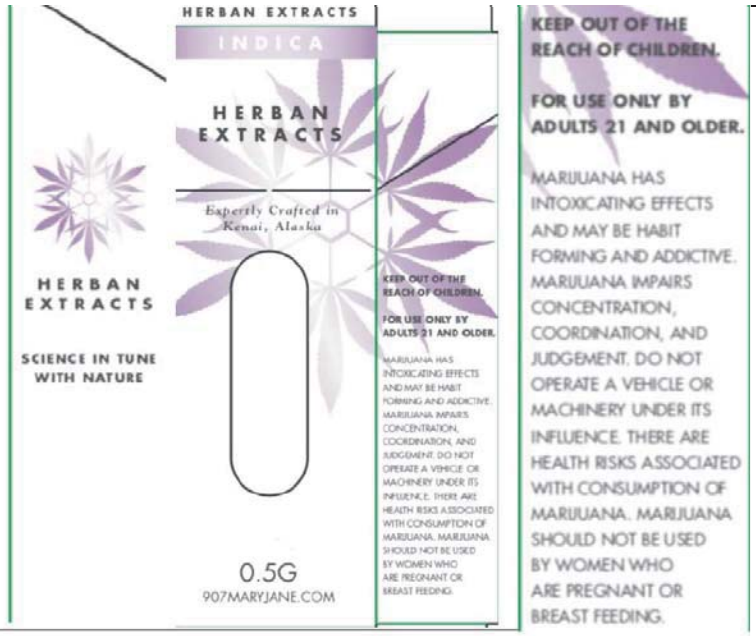
Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridges
Type:	Ethanol Concentrate Oil (for inhalation via vaporization)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	0.5 to 1 gram of ethanol concentrate oil will be packaged in glass 59 mm vape cartridges. The total THC will range from 50 - 99% with the actual THC content listed on the label per the testing results. The filled cartridge will be placed into a child-resistant, clear, plastic tube and then inserted into a paperboard box (shown to the right). The box is approximately 4.25" H x 2" W x 1.25" D and will have a tamper seal sticker. Herban Extracts will provide the retail stores with fully opaque exit bags to place the boxes into before the customer leaves the store.	

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out. *Logo color will vary depending on strain	HERBAN EXTRACTS License # 14432 Net Wt.=_____g Potency Total THC:____% Total CBD:____% THC ____mg/container; ____mg/serving CBD____mg/container; ____mg/serving Terpene Profile: Total Terpene %:_____ Pesticides:_____ Fungicides:_____ Herbicides:_____ Lot #_____ Product Made On:_____ Tested By:_____ Test Date:_____	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridge with E-pen Kit
Type:	Ethanol Concentrate Oil (for inhalation via vaporization)

Product Description: Details must include the color, shape, and texture.	Ethanol concentrate oil vape cartridges with e-pen and battery charge kit. The ethanol extracted concentrate within the vape cartridge varies in color from a bright yellow to an amber color and is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	Ethanol concentrate oil is produced using ethanol as a solvent to extract the oil (see process outlined on page 3 for further details). After extraction, the oil is refined in a closed loop system to remove the ethanol and recapture the ethanol for reuse. The oil will then be loaded into the vape cartridges.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

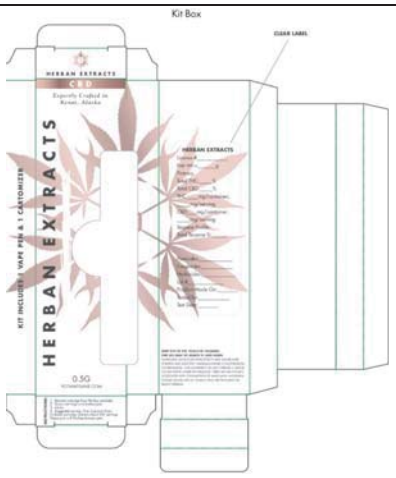
Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for <u>each</u> proposed marijuana concentrate or marijuana product.**

Product Name:	Vape Cartridge with E-pen Kit
Type:	Ethanol Concentrate Oil (for inhalation via vaporization)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	0.5 to 1 gram of ethanol concentrate oil will be packaged in plastic or glass 59mm cartridges. The total THC will range from 50-99% with the actual THC content listed on the label per the testing results. The filled cartridge will be placed into a child-resistant, clear, plastic tube and then inserted into a paperboard box with an e-pen and battery charger. The box will be approximately 7"H x 2.5"W x 1"D and will have a tamper seal sticker. Herban Extracts will provide retail stores with fully opaque exit bags to place the boxes into before the customer leaves the store. 

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	**KEEP OUT OF THE REACH OF CHILDREN.** **FOR USE ONLY BY ADULTS 21 AND OLDER.** MARIJUANA HAS INTOXICATING EFFECTS AND MAY BE HABIT FORMING AND ADDICTIVE. MARIJUANA IMPAIRS CONCENTRATION, COORDINATION, AND JUDGEMENT. DO NOT OPERATE A VEHICLE OR MACHINERY UNDER ITS INFLUENCE. THERE ARE HEALTH RISKS ASSOCIATED WITH CONSUMPTION OF MARIJUANA. MARIJUANA SHOULD NOT BE USED BY WOMEN WHO ARE PREGNANT OR BREAST FEEDING. *Logo color will vary depending on strain **HERBAN EXTRACTS** License # 14432 Net Wt.=_____g Potency Total THC:_____% Total CBD:_____% THC ____mg/container; _____mg/serving CBD____mg/container; _____mg/serving Terpene Profile: Total Terpene %:_____ Pesticides:_____ Fungicides:_____ Herbicides:_____ Lot #_____ Product Made On:_____ Tested By:_____ Test Date:_____

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 4 – Proposed Marijuana Concentrates and Marijuana Products

Review the requirements under 3 AAC 306.520 - 3 AAC 306.525 and 3 AAC 306.560, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Wholesale Ethanol Concentrate Oil - decarboxylated or not decarboxylated
Type:	Bulk Ethanol Concentrate Oil for Wholesale to other manufactuers (for use in manufacturing edibles)

Product Description: Details must include the color, shape, and texture.	Wholesale Ethanol concentrate oil to be sold in bulk to other product manufacturing facilities for use in manufacturing marijuana edible products. Ethanol extracted oil will vary in color from a very light amber to dark amber and will come in different strains, including different cannabinoids, terpene profiles, flavonoids, and distillates. The oil is a thick sticky liquid.

Ingredients: This box is not applicable to marijuana concentrates	N/A

Standard Production Procedure and Detailed Manufacturing Process:	Wholesale Ethanol concentrate oil is produced using ethanol as a solvent to extract the oil (see process outlined on page 3 for further details). After extraction the oil is refined in a closed loop system to remove the ethanol and recapture the ethanol for reuse. The oil will then be loaded into the glass jars.

Depiction: Provide a photograph, drawing, or graphic representation of the expected appearance of the final product.	

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 5 – Proposed Product Packaging and Sample Labels

Review the requirements under 3 AAC 306.520 and 3 AAC 306.565 – 3 AAC 306.570, and identify how the proposed establishment will meet the listed requirements. **Attach a completed copy of this page for each proposed marijuana concentrate or marijuana product.**

Product Name:	Wholesale Ethanol Concentrate Oil - decarboxylated or not decarboxylated
Type:	Bulk Ethanol Concentrate Oil for Wholesale to other manufactuers (for use in manufacturing edibles)

Packaging Description: Details must include the color(s), size, packaging materials used, total amount of THC, individual serving sizes (if multiple), and other specifics showing compliance with 3 AAC 306.565. Attached photos, drawings, or graphic representations are preferred.	Wholesale Ethanol Concentrate oil sold in bulk to other manufacturing facilities will be packaged in glass jars up to 1 pound for use in manufacturing marijuana edible products. THC content will range from 50-99%.

Sample Labels: Provide sample labels showing how the labeling information required in 3 AAC 306.570 will be set out.	Produced By: Herban Extracts License Number: 14432 Product Name: Wholesale Ethanol Concentrate Oil Batch/Lot Number: Gross Weight: Net MJ Weight: Packaging Date: Best By Date: Strain: Tested By: License Number: Total THC: THCA: CBD: CBDA: CBN: Microbial Test: Pesticides: Herbicides: Fungicides: Residual Solvent Test: Contaminants Test Result: Retailer: License Number: HERBAN EXTRACTS Expertly Crafted in Kenai, Alaska **Alaska Safety Warning**: Marijuana has intoxicating effects and may be habit forming and addictive. Marijuana impairs concentration, coordination and judgment. Do not operate a vehicle or machinery under its influence. There are health risks associated with consumption of marijuana. For use only by adults twenty-one and older. Keep out of the reach of children. Marijuana should not be used by women who are pregnant or breast feeding.

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 6 – Waste Disposal Plan

Review the requirements under 3 AAC 306.520, and identify how the proposed premises will meet the listed requirements.

Describe the marijuana product manufacturing facility's plan for disposal of any expired or outdated marijuana or marijuana product that is not sold or transferred to another licensed marijuana establishment:

Herban Extracts expects the following marijuana waste at their manufacturing facility; (1) contaminated or infected marijuana or marijuana products (2) marijuana or marijuana products deemed by the licensee or a manager as unfit for sale or consumption for any reason (3) marijuana product that fails testing (4) marijuana waste created during the extraction process (5) other marijuana or marijuana product waste as determined by the board or director. Once marijuana or marijuana product is deemed as waste, it will be separated from all other marijuana and marijuana products and securely stored in locked bins on the licensed premises and an email notification will be sent to AMCO Enforcement at least 3 days prior to rendering the waste unusable as well as recording the waste in metrc. All solid marijuana plant waste (plant matter waste from the extraction process such as plant matter that is pressed/squeezed to extract oil and marijuana product waste will be ground in a grinder and then mixed with other solid compostable or noncompostable wastes until the mixture is no more than 50% marijuana waste. Liquid marijuana waste such as concentrates, will be mixed with at least equal parts of compostable or noncompostable waste and then stored away from all other marijuana and marijuana products in locked containers on the premises. The waste will be picked up by the city waste facility truck and delivered to the waste station. A log will be maintained recording the final destination of all marijuana and marijuana product waste and stored in the office as an official business record available to AMCO upon request.

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

Form MJ-05: Marijuana Product Manufacturing Facility

Section 7 – Testing

The area where in-house testing will occur must be identified on the premises diagram, per 3 AAC 306.520(2).	Yes	No
Will the marijuana product manufacturing facility perform in-house testing (as defined in 3 AAC 306.990(b)(20))?	☑	☐

Applicants should review 3 AAC 306.550 and be able to answer "Agree" to the item below.

The marijuana cultivation facility applicant has:	Agree	Disagree
Read and understands and agrees to the required laboratory testing set forth in 3 AAC 306.550	☑	☐

I declare under penalty of perjury that I have examined this form, including all accompanying schedules and statements, and to the best of my knowledge and belief find it to be true, correct, and complete.

Buddy Crowder
Signature of licensee

Buddy Crowder
Printed name

Subscribed and sworn to before me this 31st day of October, 2017.

NOTARY PUBLIC
LISA A. COATES
STATE OF ALASKA
My Commission Expires March 26, 2021

Lisa A. Coates
Notary Public in and for the State of Alaska.

My commission expires: March 26, 2021

Received by AMCO 12.04.17

Alcohol and Marijuana Control Office
550 W 7th Avenue, Suite 1600
Anchorage, AK 99501
marijuana.licensing@alaska.gov
https://www.commerce.alaska.gov/web/amco
Phone: 907.269.0350

Alaska Marijuana Control Board

Operating Plan Supplemental

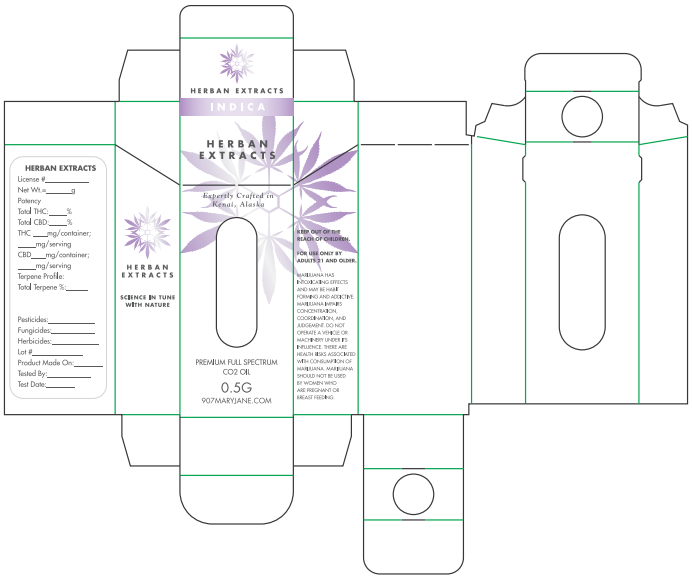
Form MJ-05: Marijuana Product Manufacturing Facility

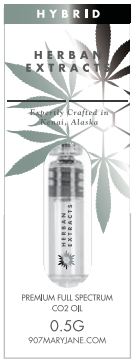
(Additional Space as Needed):

Received by AMCO 12.04.17

SAMPLE LOGO USAGE

PACKAGING





Received by AMCO 12.04.17

SAMPLE LOGO USAGE

PACKAGING

Received by AMCO 12.04.17