



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

PURPOSE:

This document is a standard operating procedure (SOP) intended for Abstrax Tech's valued customers. This SOP is meant to establish the proper guideline for mixing Abstrax terpene formulations into a CBD and Tec-Temper solution. Keep in mind this SOP is a guideline and the exact percentage of terpenes appropriate for your particular product can vary from 0.5% to 17%. This protocol is intended to be carried out by trained professionals in a licensed facility that is properly suited for this SOP. This procedure is best utilized in a designated formulation area in the licensed laboratory. All the personal and facility safety requirements should be inspected before procedure begins. It is the responsibility of the staff formulation chemist to carry out this task. It is the primary responsibility of the formulation chemist and secondary responsibility of the compliance officer to verify the SOP is followed accurately, precisely, and yields a quality product with completed data and samples made for quality control (QC) testing.



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018



PERSONNEL AND FACILITY REQUIREMENTS:

Employees must have the following personal protective equipment (PPE) to be in the formulation area:

- Powder-free nitrile gloves
- Lab issued safety glasses or goggles
- Lab issued lab coat
- Long pants
- Closed-toed shoes
- Hair net (including beard net, if employee has facial hair)
- Respirator or mask (optional)



Employees must have these tools and materials on site to fulfill this SOP:

- Pyrex Mixing Beaker (Volume of beaker = double the mass (g) of your final product)
- Scale (5000g MAX, 0.01g precision)
- Stainless Steel Micro-spatula
- Smaller Pyrex beaker for terpene transfer
- Mixer with clean attachments
- CBD Isolate
- Abstrax Terpene Blend
- Pipette Pump
- Glass Pasteur Pipette
- Tec-Temper
- Heat Gun or Hot Plate

LOCATION:

Formulation room (non-classified area). Note: This room is not meant to contain any amount of flammable solvent unless specifically stated in SOP. Only diluted isopropyl alcohol is allowed specifically for cleaning purposes. Any by-products must be bottled and stored properly according to this SOP. Keep solvents away from formulation area to avoid cross contamination. Be sure to check on room filtration to avoid cross contamination from outside conditions.



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

PROCEDURE:

CBD Isolate:

You would like to make a 1000 g final product formulation with 40% CBD, 10% Abstrax blend terpenes, and 50% Tec-Temper cutting agent. If you would like more or less terpenes just alter the amount of Tec-Temper used, never add more CBD or else you may not be able to fully dissolve it all.

1. Weigh out 400 grams of CBD isolate into your reaction beaker.
2. Weigh out 500 grams of Tec-Temper into the reaction beaker.
3. Gently heat this mixture with mixing to dissolve the CBD isolate into the Tec-Temper.
4. Once the CBD isolate has fully dissolved, cool the beaker down to room temperature.
5. Weigh 100 grams of Abstrax terpenes into the terpene weighing beaker.
6. Pour the weighed out terpenes into the reaction beaker.
7. Mix this solution for 5 minutes to ensure complete mixing.
8. Now dispense into vape carts and enjoy your CBD vape product!

CBD Distillate:

If using CBD distillate, you will need to use an increased amount of CBD per formulation, in which the amount of total CBD per pen should not exceed 50% by weight. The suggested formulation is below, please blend a small R&D batch to confirm CBD solubility as no distillate is the same. You would like to make a



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

1000g final product formulation with 40% CBD in the final pen starting with an 80% CBD Distillate. The ratio to achieve this would be 50% CBD Distillate (with an 80% CBD potency), 10% Abstrax blend terpenes, and 40% Tec-Temper cutting agent. If you would like more or less terpenes just alter the amount of Tec-Temper used, never add more CBD or else you may not be able to fully dissolve it all.

1. Weigh out 500 grams of CBD distillate into your reaction beaker.
2. Weigh out 400 grams of Tec-Temper into the reaction beaker.
3. Gently heat this mixture with mixing to dissolve the CBD isolate into the Tec-Temper.
4. Once the CBD isolate has fully dissolved, cool the beaker down to room temperature.
5. Weigh 100 grams of Abstrax terpenes into the terpene weighing beaker.
6. Pour the weighed out terpenes into the reaction beaker.
7. Mix this solution for 5 minutes to ensure complete mixing.
8. Now dispense into vape carts and enjoy your CBD vape product!



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

CONCLUSIONS:

This document is intended to establish the proper protocol for mixing Abstrax terpene formulations into cannabinoid solution or general vape solution. This protocol is intended to be carried out by trained professionals in a licensed facility properly suited for this SOP. This procedure is best utilized in a designated formulation area in the licensed laboratory. All the personal and facility safety requirements should be inspected before procedure begins. It is the responsibility of the staff formulation chemist to carry out this task. It is the primary responsibility of the operator and secondary responsibility of the compliance officer to verify the SOP is followed accurately, precisely, and yields a quality product with completed data and samples made for quality control (QC) testing.

*If you'd like to see more SOPs from Abstrax Tech please inquire online at Abstraxtech.com, hit us up on Instagram @AbstraxLabs, or contact our CTO directly via email at Kevin@abstraxlabs.com.



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

FORMULATION DATA SHEET

Date			
Chemist Name			
FLAVOR ONE		FLAVOR TWO	
Date		Date	
Product Type		Product Type	
Final Weight Goal (g)		Final Weight Goal (g)	
Oro Needed (g)		Oro Needed (g)	
Oro Used		Oro Used	
Oro ID		Oro ID	
Terps Needed (g)		Terps Needed (g)	
Temperature Terps Added °F		Temperature Terps Added °F	
Terps Used (g)		Terps Used (g)	
Temp of transfer to syringes °F		Temp of transfer to syringes °F	
QUALITY (1 to 5 STARS)		QUALITY (1 to 5 STARS)	
Syringe Lot #s		Syringe Lot #s	
Total Solution in Syringes (g)		Total Solution in Syringes (g)	



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

FORMULATION DATA SHEET

Date			
Chemist Name			
FLAVOR THREE		FLAVOR FOUR	
Date		Date	
Product Type		Product Type	
Final Weight Goal (g)		Final Weight Goal (g)	
Oro Needed (g)		Oro Needed (g)	
Oro Used		Oro Used	
Oro ID		Oro ID	
Terps Needed (g)		Terps Needed (g)	
Temperature Terps Added °F		Temperature Terps Added °F	
Terps Used (g)		Terps Used (g)	
Temp of transfer to syringes °F		Temp of transfer to syringes °F	
QUALITY (1 to 5 STARS)		QUALITY (1 to 5 STARS)	
Syringe Lot #s		Syringe Lot #s	
Total Solution in Syringes (g)		Total Solution in Syringes (g)	



FORMULATION DATA SHEET

STRAIN FORMULATION	NO CUT	WITH CUT
Chemdawg	17%	13%
Fire OG	15%	12%
Paris OG	15%	12%
Northern Lights	15%	12%
Clementine	13%	10%
Trainwreck	12%	10%
Grapefruit Kush	14%	10%
Lemon Cake	15%	10%
Green Crack	14%	13%
Gelato	15%	12%
Wedding Cake	15%	13%
Master Kush	15%	12%
XJ-13	15%	12%
SFV OG	15%	12%
Tropic Thunder	13%	10%
Lemon Jack	15%	12%
Blue Dream	14%	11%
Green Crush	13%	11%
Strawberry Cheesecake	13%	10%

*These are our recommendations for using these formulations with or without cutting agents.



ABSTRAXTM
TECH

Standard Operating Procedure #004 | Terpene Formulation | Revision Date: August 24, 2018

* If you'd like to try more strain formulations by Abstrax Tech shop online at [Abstraxtech.com](https://abstraxtech.com) or hit us up on Instagram @AbstraxTech.

* Keep in mind these percentages are guidelines for your products based on existing large brand formulations today. These percentages can range from 1% to 17%. We encourage our valued customers to try our formulations at an initial 4% and work up the concentration from there to your acquired taste.