



**TERPENE**WAREHOUSE

## Mixing Percentages

### Cartridges:

- Live Resin Carts 3-5% (30-50ml per liter of distillate)
- Live Infusion Carts 4-6% (40-60ml per liter of distillate)
- Botanical Strain Carts 5-8% (50-80ml per liter of distillate)
- PLUS Blend Carts 6-10% (60-100ml per liter of distillate)

### Prerolls:

- 10-20ml per pound (454g in 1 lb to add 3% terps calculate  $454 \times 3\% = 14\text{g terps}$ )

### Sprucing you a pack:

- Terps 1-3ml per pound
- Gas Up 1-2ml per pound

### The Juice:

- 1%-3% depending on cannabinoid (delta8 requires more than delta 9)

### Gas Up:

- 1-3% (10-30ml per liter of distillate)

## Pro Mixing Tips for Cartridges

10ml (7%) of terpenes + 140g (94%) of distillate = 150 1g Cartridges or 187 0.8g carts

### Remember time and temperature are the enemy of terpenes!

The amount of time terpenes are exposed to the air and temperatures above 70°F (21°C) the more they degrade. When adding terpenes to concentrate, the temperature is much higher, but ensure your distillate is below 130°F (55°C) when you add your terpenes and be ready to fill. Most commercial filling equipment holds the distillate and terpenes at around 180°F (80°C) which is why most commercial cartridges get such a bad rap and are described as tasting like "hotdog water". If you follow our steps you will achieve an amazingly high-quality product.

### Step#1

"*Mise en Place*" Have all your supplies in place and readily available.

In a beaker, gradually heat up your distillate to 160°F (70°C) on a hotplate with a magnetic bar (pill). For best results be sure to keep your distillate around this temperature and absolutely no higher than 175°F (80°C). *\*Note: We recommend starting with a small batch until you have a good feel for how to work with distillate.*

### Step#2

Once your distillate is flowing nicely and has completely liquified, with the stir bar constantly spinning, add your diluent (The Juice) and allow the distillate to cool to 120-130°F (50-55°C).

### Step#3

At this point you can add your terpene profile while again, still making sure the stir bar is spinning. Allow the terpenes and distillate to homogenize (approx. 1-2 minutes).

### Step#4

Use the heat gun to slightly warm up your syringe so the mixture does not solidify the moment you pull it in. Keep the heat gun handy incase at some point you need to warm up the syringe again, this also helps when cleaning your syringe. Now you can pull the mixture into the syringe and start filling your cartridges. Fill your cartridges to about 1/16" (2mm) from the top to allow space for the mouthpiece (cap) and prevent leakage. *\*Note: We recommend pulling no more than 20ml into the syringe until you have a good feel for how to work with distillate.*

### Step#5

As soon as you are done with all your distillate, immediately start screwing or pressing on the mouthpiece (cap). The longer you wait, the better chance the distillate will start to oxidize at the top.

### Step#6

Cleaning- Warm up your beaker and syringe with the heat gun to liquify any remaining distillate and discard the leftovers. With the alcohol and paper towels, clean your beaker and syringe well to remove any excess residue. With the syringe, any remaining residue can render the syringe useless once it solidifies. Use the alcohol to clean off any spillage on your cartridges as well.

### Step#7

Breath... You did it!

What you will need:

1. Hot Plate with magnetic stir bar (pill)	2. Variable temp. Heat gun (any hardware store has them)	3. 98%+ Pure Food Grade Ethanol for cleaning	4. Glass Syringe with 16 gauge blunt tip needles or any other cartridge filling equipment you may have.
5. Glass Beakers	6. Concentrate/Distillate	7. Terpenes already measured out	8. Paper Towels
9. Cartridges open and ready to be filled	10. Thermometer	11. Diluent (The Juice)	12. Most Importantly - PATIENCE

Things to consider:

*When it comes to formulating cartridges a few variables should be considered: Battery strength, cartridge materials, and the quality of the starting material and extraction methods used to produce your distillate.*

*Battery Strength: A battery's electrical output will dictate how hot the wick material gets while being used. A battery which burns at 10 Watts will produce more heat, thus degrading and vaping off more terpenes per hit than a battery which only operates at 6 Watts.*

*Cartridge Materials: Glass or Plastic?*