

User's Manual

tCheck makes it easy to measure the potency of your infused oils and create recipes with exactly the strength that you need. With the addition of the flower & concentrate testing kit, you can also use tCheck 2 to measure the potency of your plant material** & concentrates.

tCheck's patented technology measures infusions in:

- Ghee / Clarified Butter
- Olive Oil
- Coconut Oil / MCT Oil
- Alcohol

Oils such as coconut oil and butter must be warmed to a clear liquid state before measurements can be performed. **Do not place the tray on a hot surface, or in the microwave. Excessive heat can cloud the tray or damage the surface. Boiling liquids may damage the tray.**

When measuring butter, please be sure to only use the clear butter fats. Milk solids will throw off the measurements.

Mobile App

tCheck2 requires Bluetooth Low Energy (BLE) connectivity to a mobile device in order to function. Apps are available for both iOS and Android. Please download the apps from the respective apps stores.

<< Add links here >>

How to pair the device to your phone

<< Figure this out >>

How to run a test

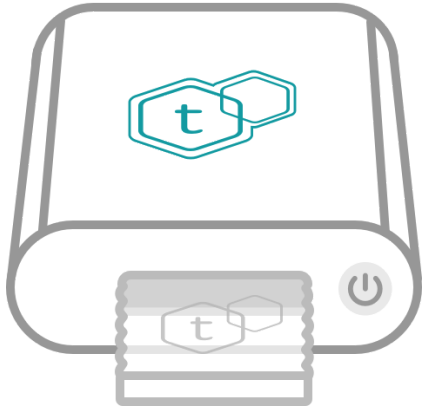
Ensure the sample tray is not inserted into device when powering on. tCheck performs power-on self diagnostics and a tray may interfere with these self checks.

Place tCheck on a flat level surface and turn on by pressing the power button.

1. Open the sample tray by separating the top and bottom halves.
2. The top half can be identified by the tCheck logo, put this aside for now.

3. Place the bottom half of the test tray on a level surface, place approximately 4-5 drops of infused oil into the circular well area. A little excess oil is OK.
4. Now place the top half of the tray onto the bottom, it's OK if a small amount overflows out of the circular well area.
5. Ensure that there are no bubbles in the circular well area.

<< Picture of inserted tray >>



<< Picture of improperly filled tray >>



<< Picture of properly filled tray >>



If you are experiencing issues with excess bubbles try reseating the top tray by lifting it slightly from and placing it back down, or adding a couple more drops of the sample material.

Ensure that the excess oil stays within the overflow area and does not flow out of the tray.

Insert sample tray into device then select:

“RUN A TEST”

Follow the on-screen instructions.

When the test is complete, remove tray and hand wash with dish soap and warm water.

Only use the soft side of a sponge. Abrasive cleansers or scouring pad will damage the tray. **Do not clean the tray in the dishwasher.**

Interpreting your results

After the test is complete, your results will be displayed in mg/ml - milligrams of compounds per milliliter of oil. CBV means “Compounds by Volume” which represents the total amount of herbal molecular content** per volume of liquid. This display may be changed to show other units such as mg/tsp or mg/tbsp.

An analogy would be dissolved sugar in a cup of water. If someone gives you a cup of sweetened water, CBV is a measure of the amount of granulated sugar that was dissolved in that cup of water. For example, 1 tbsp of sugar into 1 cup of water. (Note: tCheck does not measure sugar)

You can now take your test results and use them in the CBV Calculator to adjust your recipe accordingly

If you get **OVER** measurement (Dilution):

Result displayed as **OVER** means infused potency is stronger than tCheck is able to measure. Due to the physics that tCheck uses to make measurements, there are certain limits to what it can measure. This is like using a ruler to measure the length of a dinner table. With a bit of care, it can be done with a reasonable degree of accuracy.

The procedure is:

Step 1: Measure out a precise volume of your infusion (For example .5ml)

Step 2: Measure out 2x the volume of the uninfused base oil (if you first measured out .5 ml, you would measure out 1ml of the uninfused base)

Step 3: Mix thoroughly. Proper mixing is vital to getting an accurate reading.

Step 4: Use tCheck to measure the potency of the diluted solution

Step 5: Multiply the measurement reading in mg/ml form by 3. This is the the potency of your original infusion. Be sure to use this final amount you have calculated when dosing.

Turning off your device

tCheck automatically powers down after 3 minutes of inactivity so there is no need to press the power button to manually power down the device. To re-awaken the device, simply press the front power button. With normal use, a set of AAA batteries should last over 4 months, running several hundred measurements.

Taking care of your device

- Do not immerse or submerge tCheck device
- Hand wash sample tray & swizzle sticks with soft sponge and liquid household dish soap.
- Do not wash sample tray in dishwasher, high temperature water will deform the plastic.
- Never store a used tray or clean tray in the tCheck unit. Always remove the tray and store both the tray and tCheck in a clean, dry place. Try to keep your tCheck device free of internal dust as well.

Batteries

Use only alkaline, lithium, or NiMh batteries. Do not use NiCd batteries as they do not provide sufficient voltage to ensure reliable operation.

Firmware Updates

Periodically, you may receive an email message notifying you that a new firmware version is available.

Technical Specifications

Operating temperature 50°F ~ 100°F (10°C ~ 38°C)

Measurement range Butter: 0 ~ 10 mg/ml
Coconut oil: 0 ~ 10 mg/ml
Olive Oil: 0 ~ 15 mg/ml
Alcohol: 0 ~ 8 mg/ml

Accuracy The given result has an error of $\pm 10\%$. This means that a reading of 10 mg/ml could have an actual value ranging between 9-11 mg/ml. With proper use, and following all directions, your tCheck should never test outside of this range. Most labs test at a $\pm 5\%$ variance.

Troubleshooting

| Situation | Cause | Solutions |
|--|--|---|
| Inconsistent or obviously incorrect readings | Calibration error | Re-calibrate device from home screen, select 'Settings' -> 'Calibrate' and follow on-screen instructions. |
| | Improperly inserted tray | Ensure that tray is pushed completely into the device. The tray should feel snug. The logo on the tray should be facing upright. |
| Result shows 'OVER' | Infused potency stronger than tCheck is able to measure. | Draw a measured quantity of infused oil. Mix with exact equal quantity of un-infused base oil and perform measurement. Double the result shown by tCheck. |
| Oil spilled into the device | Contact us at support.tcheck.me | |
| Other issues | Contact us at support.tcheck.me | |

Warnings:

- Burn hazard – infused oils may be hot. Handle with care.

- Some recipes may suggest using liquids that are flammable. Your usage of such materials is at your own sole risk. Any damages are your own responsibility.
- tCheck uses Ultraviolet (UV) light that may be potentially harmful if exposure to skin or eye is prolonged. While exposure is unlikely, avoid placing your eye against the sample tray slot opening during device operation.
- If you do not plan on using tCheck for an extended period of time, we recommend removing the batteries to prevent leakage.

RF Exposure Compliance:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To comply with FCC/IC RF exposure compliance requirements, a separation distance of at least 20cm (8 inches) must be maintained between the antenna of this device and all persons.

Important Safety Instructions:

Engineered Medical Technologies reminds you that when using tCheck or any electric appliance there are safety precautions that you should always follow.

1. Read all instructions before operating appliance.
1. To protect against electrical shock, do not wet or immerse tCheck device, power cable, or charger (charger not provided) in water.
2. Do not operate any appliance with a damaged cord or plug.
3. Use of any accessory attachments not specifically recommended or sold by Engineered Medical Technologies may pose a serious risk of injury. See warranty details.
4. Do not place boiling oils or liquids into testing tray.
5. Extreme caution must be used with moving appliance containing hot oil or other hot liquids.
6. tCheck is NOT a medical device in any way. No statement made about tCheck has been evaluated by the US Food and Drug Administration, tCheck is not intended to diagnose, treat, cure or prevent any disease. [US 21 C.F.R. 101.93(c)].
7. Do not overfill test sample tray. Leakage out of the tray into the tCheck device may damage internal electronics. See warranty details.
8. Do not install tray upside down. Leakage into the device may occur and damage internal electronics. See warranty details.
9. Do not use tCheck for anything other than its intended use.
10. Do not open or disassemble tCheck as there are no internal user serviceable parts. See warranty details.

Notes:

** For further clarification on terms such as “herbal molecular content” and “compounds by volume”, please email support at support@tcheck.me.