



swissmixit

Cruising Review

Induction mixing extraction and formulation by SwissMixIt



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Induction mixing extraction and formulation by SwissMixIt. The new revolution in home-based botanical extraction, mixing, and formulation using touch-free induction mixing. DIY Organic Essential Oil Topical Skin Solutions, Craft Skin Cream, and Artisan Nutraceuticals.

PDF Version of the webpage (first pages)

4/20/2024

Nutraceutical Botanical Extraction and Formulation

SwissMixIt: Micro Botanical Oil Extractor and formulation system using the most advanced induction mixing technology. From farm to table, this oil extractor is perfect for full spectrum hemp and other nutraceutical and essential oil botanicals using the latest green extraction technology. The same mixing technology can also be used to deploy your botanical extraction into a DIY skin cream.

Touchless Mixing

Touchless extraction and mixing, in the same dispenser, for topical use. Buy organic botanical material, (including Astragalus, Carnosine, hemp, moringa, gooseberry, oregano, black seed, etc.), grind, put in dispenser-extractor to process, and you have a finished project ready to use in a standard Mason jar and dispenser pump. The same Mason jar can also be used to mix and formulate skin creams.

Extraction:

This is perfect for organic botanical powder which cannot be otherwise easily extracted because it is in powder format, which is hard to contain. The powder and botanical bits do not go through the high filtration system. This is a method of in-situ extraction using a solid state touch-less mixer using magnetic induction and vegetable oil (rice bran oil, avocado oil, olive oil) as the solvent.

We are now working on distilled water as the solvent using our patented cavitation rotor which provides micro heat and pressure to extract oil from the botanical.

How It Works:

Using a carrier oil (most vegetable oils work), touchless induction mixing and time, the oil in the botanical is pulled out and is attracted to the carrier oil. As a topical oil, this is the holy grail of extraction since it is simultaneously mixed with the oil as it can be applied to the skin in the same container with dispenser pump. For oregano oil (considered a hot oil), we recommend the bottom of the feet. For Amla (Gooseberry) we recommend anywhere on the skin. For hemp, topically on the body for aches and pains.

What's in the Box:

- Induction Mixing Base (110V single phase USA plug)
- Mason Jar with Dispenser Pump
- In-situ Filtration System (built into Dispenser Pump and cleanable)
- Link to website for operation, use, sample botanicals, carrier oils, applications
- Link to how to start an extraction business

Can I use this to produce commercial topical products ?

Yes. This is perfect for DIY small business extractions. You can mix then put into standard Mason jars with dispensers which you can buy from Amazon. We will offer a DIY plans and Amazon links kit shortly.

Skin Cream:

The same mixing system can be used to make luxurious skin creams. With a oil base, add bees wax, Shea or Mango butter (other other waxes), then add your extract. Heat mixture and put on mixing stand. As formulation is spinning around, slowly add hot distilled water and keep mixing as it cools. The mixture will slowly turn a whitish cream color as it cools. Remove the magnetic stir rotor and let cool. Voila, you have skin cream. Fresh, organic, and no added chemicals.

Magnetic Mixer

While we are still developing our induction mixer, you can purchase this unit from Amazon, which works great.

This mixer can be used for both infused oils, and mixing DIY skin creams.

Stainless Steel Micron Filter

Stainless Steel Filter Element for pump top Mason jars.

Description: .5 Micron high filtration element with 1/4 inch attach point. Used for pump tops on Mason jars or other container pumps that allow a 1/4 inch tube connection. This is for making oil infusions. Allows you to mix and extract in same Mason jar and then pump out oil and extract while filter leaves and particulates behind. Great for making hemp oil. Can be run in reverse with an air pump for making aerated yeast growth, vinegar, and more. Includes two (2) filters and shipping in USA via USPS Flat Rate box.

Price (2 filters): \$49.99

Shipping and Handling: Included to domestic USA via USPS Flat Rate Box

Astragalus Root Example

You can use chopped, powdered, even whole flower in the Mason jar for extraction. Simply turn on the machine to spin the solution to let the oil emerge the botanicals and extract the oil.

Is green extraction using vegetable oil better than distillation for essential oils ?

Vegetable oils have been used as solvents for extraction, purification and formulation by ancient civilizations such as Egyptians and Phoenicians, Indians and Chinese, and even Mayas and Aztecs. Ancient Egyptians firstly produced infusions of medicinal or aromatic plants in vegetable oils as solvents for therapeutic, nutritional, aesthetic and spiritual purposes. They used vegetable oils in the formulation of cosmetics providing emollience, moisturizers and grooming, or acting as solvents and vehicles to carry other agents. Due to the fact that several special phytochemicals are either destroyed or lost during distillation, or are very difficult to extract resulting in a low yield of essential oils, herbal infused oils are indispensable for obtaining such compounds. Vegetable oils could be one of the solutions coming from the past and acting as a future of humanity as an ecologic and an economic alternative to petroleum and hazardous solvents, and turning to sustainability in the 21th century.

How efficient is the carrier oil extraction process ?

The process varies depending on mixing rate and time, but expect around 80 percent or higher. This method produces a full spectrum high quality craft oil. The best part of a in-situ extraction is that the consumer gets the entire product, and it only gets better with time. 100 percent of the botanical and extract are in the same Mason jar container, which is also the extraction and pump dispenser device. The magnetic touchless induction base mixer reduces oil infusion time from weeks to a few hours or less.

Mixing System

The system gives you a DIY solution to make essential oils, creams, soaps, craft vinegar, fermentation, and a host of other solutions which you make yourself to insure quality and authenticated ingredients. These solutions help you look, feel, and be better during the COVID-19 pandemic. We are researching some herbs that positively impact your immunity system and some which may direct effect COVID-19.

RTM Ready to Mix Skin Cream Packages: We will soon be offering pre-measured ready-to-mix Mason jars with ingredients. Simply heat up, add distilled water, and mix to make luxurious skin creams. Add your own essential oils and fragrances (including perfume) for your own personalized cream.

Why can commercial ethanol hemp processing be bad ?

The problem with ethanol processors (example: hemp) is that you don't know what you're getting. Ethanol processing can be a sketchy processing method. Many un reputable ethanol processors use charcoal filters to filter out chlorophyll (green color and bitter taste). Unfortunately, this also filters out the primary healthy medicinals (CB D) from the hemp, which renders the medicinal effects of hemp virtually useless and hoodwinking the consumer.

Can I use alcohol for the solvent ? Alcohol (ethanol such as Vodka) is great for dissolving plant cells to release oil, unfortunately, it also dissolves the valuable turpenes (the fragrance portion of the botanical) and makes it volatile (i.e. it evaporates into the air). You'll notice most commercial vanilla for baking is either synthetic (not real) or in alcohol. It smells good because the flavor is imparted into the air, not into the product. If you take real Vanilla pods, and put them into a Supercritical CO2 extractor, or simply grind and put them into a oil with the SwissMixIt system, you'll find the amazing true flavor of Vanilla.

Can the stainless steel filter be reused ? The food-grade stainless steel filtration element can be put in a dishwasher (or ultrasonic cleaner) and reused. The standard filter element used for topical use, should be clean after each use.

What sizes of Mason jars are there ? Standard Mason jars come in 8 oz, 12 oz., 16 oz., and 32 oz. sizes. You can then sub-divide the extract solution into small 1 oz bottles for retail sales. Any glass jar can be used, which is size appropriate. We like glass because it is reusable.

Can this be used for other antioxidant botanicals ? Yes. We actually recommend Oregano, Amla (Gooseberry) and other similar botanicals rich in antioxidants, and which are considered superfoods. You can grow herbs yourself (dry and grind), or purchase certified botanicals in dried format (grind prior use), or purchase organic and certified powder. You can make your own extracts or purchase extracts (Astragalus for example) and add to skin cream.

Can I use this for saponification and making liquid soap ?

Yes. The benefits are mixing the solution in a pump dispenser Mason jar. You must not re-use the container for any food products. As an added benefit, you can mix in botanicals, including black tea, which has been shown to have an effect on Covid-19 (when ingested which would only effect mouth and throat – not lungs). “We reviewed the antiviral activities of two polyphenols derived from tea, epigallocatechin-3-gallate (EGCG) from green tea and theaflavins from black tea. Both green tea and black tea polyphenols have been reported to exhibit antiviral activities against various viruses, especially positive-sense single-stranded RNA viruses. Theaflavins (TFs) are another class of polyphenols found in abundance in black tea... and are being researched for their bioactive properties and are known for their broad-spectrum biological properties, like anti-tumor, anti-viral, anti-inflammatory, anti-oxidative, and anti-bacterial properties. After extensive studies on these polyphenols regarding their specificity, activity, bioavailability and safety, there can be considerations on their use in treatment of viral infections including COVID-19.”

Is this better than commercial processing ?

Yes. From farm to table, you control the extraction, without any unknown processing. If you are buying hemp (for example), buy from a reputable farmer, and confirm they are on the state registered grower list.

Request a COA (Certificate of Analysis) to confirm it's legal, and has all the components for a good quality oil extract. Buy a dried product. If you purchase a wet or freshly harvested product, you're buying 50 percent water weight. Buy the material by the pound. Do not buy based on a points system or other confusing redirects. You should be able to buy quality hemp for \$30 or less per pound (we've seen it as low as \$2/lb). You'll find groups trying to sell smokable hemp for up to \$100 a pound. Buy fresh, or a properly dried hemp flower product from last fall. Do not buy any product from the prior year harvest unless it was properly dried and stored and comes with certification (COA).

