

MEDIPURE DS Caffeine Position Paper

To whom it may concern:

Nuethix Formulations is always pushing the envelope to provide the latest science, ingredients, and protocols for client/patient outcomes. Our new MEDIPURE DS has an array of options for detoxification based on both client/patient preference, food sensitivities, and their genetic detoxification imbalance.

We do this in three ways; Flavor, Protein Source, and Phase 1 and Phase 2 pathways preference.

MEDIPURE DS will now have 3 different flavors to meet the palate of the consumer. Most cleanses only have one flavor option that reduces the consumers ability to have a pleasant purification experience.

Furthermore, different proteins do better in digestion for different users. Many people who suffer from gut issues may even have a food sensitivity or allergy to one protein or another. To accommodate for this MEDIPURE DS will now be offered in both pea protein and rice protein. The two options will give the consumer texture preference options and reduce the possibility of product reactions.

The final technical advancement we made seeks to adjust the formula based on phase 1 or 2 clearance issues the patient/client may be experiencing. This has come under increased concern by our customers and we would like to explain the science and how to work with the variation for best outcome.

The concern revolves around the use of caffeine. Caffeine is not a traditional ingredient found in detox but research has shown that there are uses for it for improved detox outcomes in certain clients/patients.

What?

28.2 mg of caffeine in our mocha flavors only. Our caffeine is sourced from organic Mexican coffee and has no artificial or gmo ingredients.

Why?

Caffeine has long been researched in the up regulation of cytochrome p448¹. This class of p450 enzymes makes fat soluble toxins ready to be water soluble where they then go to phase 2 detoxification in a process called hydroxylation. Cytochrome enzymes are the important class of enzymes known to detoxify.

Caffeine has been shown to clear medication and anesthesia at small dose².

¹ Belayneh A, Fantahun M. The Effect of Coffee on Pharmacokinetic Properties of Drugs: A Review. National Center for Biotechnology Information. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7397437/>

² Robert F, Lingzhi W, James Z, Suhail K, Jeffrey A, Aaron P, Zheng Xie. Caffeine Accelerates Emergence from Isoflurane Anesthesia in Humans: A Randomized, Double-blind, Crossover Study. Anesthesiology (ASA). <https://pubs.asahq.org/anesthesiology/article/129/5/912/19982/Caffeine-Accelerates-Emergence-from-Isoflurane>

Imbalances in detoxification occur due to environmental influencers but also genetic predispositions. Most people are either phase 1 dominant detoxifiers or phase 2. The key to optimal detoxification is to help balance phase 1 and phase 2.

Research shows that genetic variants strongly affect your caffeine tolerance³. MEDIPURE DS uses 28.2 mg of caffeine which is only contained in about 3 oz cup of coffee. This is a small enough amount for the average individual not to feel it but assist the liver in phase 1 support for those that we identify may be phase 2 dominant.

Most clinicians report the greatest side effects to detox are caffeine withdrawal. By using a very small amount allows for clients to taper off and significantly reduce the symptoms of detox while still enjoying the medicinal benefits of caffeine.

HOW?

We recommend a caffeine tolerance test. If a patient/client reports heavy sensitivity to caffeine or reacts to only 3 oz of coffee upon testing then they are phase 1 dominant detoxifiers and do not need the caffeine.

For those who do well on caffeine and can not feel 3 oz of coffee these people are phase 2 dominant detoxifiers which is why they do well on caffeine and will benefit from the caffeine to balance on phases for improved outcomes.

Our Chocolate and Vanilla Wafer based flavors do not contain caffeine and do great for those who do not need it while our mocha will be the only formula. Please see labels for more details.

Thank you for using Nuethix as we continue to bring new functional options to the table for improved outcomes. This mocha formula is a limited release as we get feedback from our practitioners on clinical outcomes. If you have further questions or want to report results please email customerservice@nuethix.com.

³ Amy Y, Abraham P, Harriet W. Genetics of Caffeine Consumption and Responses to Caffeine. National Center for Biotechnology Information (NCBI). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4242593/>

