

HONEY DETOX MASSAGE COMPOUND IDENTIFICATION

LC-NPMC-REP-0053

Chemicals taken from the body that were not existent on the skin or in the BY's Detox Formula

(E)-Urocanic acid

The naturally occurring trans-isomer of urocanic acid (trans-UCA), found in the stratum corneum, absorbs ultraviolet light (UV) and isomerizes to the cis-form. Cis-UCA has been shown to impair some cellular immune responses, and has been proposed as an initiator of the suppression that follows UV irradiation.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2326747/>

Glycidyl oleate

Glycidyl fatty acid esters (GE) are constituents of edible oils and fats, and are converted into glycidol, a genotoxic substance. Exposure to glycidol may also cause central nervous system depression, followed by central nervous system stimulation. It is listed as an IARC Group 2A Agent, meaning that it is "probably carcinogenic to humans".

<https://www.sciencedirect.com/science/article/abs/pii/B9780988856509500117?via%3Dihub>

Argininic acid

L-arginine is an amino acid naturally found in red meat, poultry, fish, and dairy. It can cause some side effects such as stomach pain, bloating, diarrhea, and low blood pressure.

Amino acid(Arg-)

In addition to toxicity, mutagenicity and carcinogenicity, attention is focused on renal and gastrointestinal tract functions, ammonia production, and consequences of a competition with other amino acids for a carrier at the cell membranes and enzymes responsible for their degradation. It is shown that enhanced intake of most amino acid supplements may not be risk-free and can cause a number of detrimental side effects.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8997670/>

Bikaverin

Bikaverin has also been found to present toxicity towards other organisms, including some fungi and oomycetes that are plant pathogens. It is recognized as a blue compound approved for food and cosmetic use.

<https://www.sciencedirect.com/science/article/pii/S0944501320305218>

1-(Hydroxymethyl)-5,5-dimethyl-2,4-imidazolidinedione

Used as a biocide in cosmetics with 0.6% the maximum allowable concentration in the EU; [Kanerva, p. 398, 407] Used as an antimicrobial pesticide in cleaning products, adhesives, air fresheners, caulks, hydraulic fluids, inks, metal working cutting fluids, paints, stains, coatings, paper and paperboard coatings, polishes, synthetic polymers, sealants, starch solutions, resin emulsions, textiles, and wax.

<https://pubchem.ncbi.nlm.nih.gov/compound/DMDM-Hydantoin>

Mefloquine

Mefloquine can cause dizziness, difficulty sleeping, anxiety, vivid dreams, and visual disturbances. In rare instances mefloquine can cause seizures, depression, and psychosis. Often used as an anti-malaria drug with serious side effects.

<https://www.ncbi.nlm.nih.gov/books/NBK556592/>

Methyl Nicotinate

The EWG/FDA reports that Methyl Nicotinate has been shown to cause toxicity and temporary inflammation and may increase the risk of exposure to other additives that are often included in formulas along with Methyl Nicotinate. Issues are related to Allergies & Immunotoxicity.

https://www.ewg.org/skindeep/ingredients/703909-METHYL_NICOTINATE/

N-(1-Deoxy-1-fructosyl)phenylalanine

Belongs to the class of organic compounds known as phenylalanine and derivatives. Phenylalanine and derivatives are compounds containing phenylalanine or a derivative thereof resulting from reaction of phenylalanine at the amino group or the carboxy group, or from the replacement of any hydrogen of glycine by a heteroatom. Phenylalanine is an amino acid, a building block of protein. Most people don't need to worry about it. But it is an issue for people who have a genetic condition called phenylketonuria (PKU). Genetic conditions are passed through families.

In people with PKU, phenylalanine can cause intellectual disability, brain damage, seizures, and skin and other problems. Intellectual disability is slow learning and skill building. Phenylalanine is in many protein-rich foods, such as milk, eggs and meat. Phenylalanine also is sold as a dietary supplement. The artificial sweetener aspartame (Equal, NutraSweet) has phenylalanine. Aspartame is added to many medicines, diet foods and diet sodas.

<https://www.mayoclinic.org/healthy-lifestyle/nutrition-and-healthy-eating/expert-answers/phenylalanine/faq-20058361>

https://pubchem.ncbi.nlm.nih.gov/compound/N-1-Deoxy-1-fructosyl_phenylalanine

Occidentoside

Ochratoxin A (OTA) is a mycotoxin produced by several fungal species including *Aspergillus ochraceus*, *A. carbonarius*, *A. niger* and *Penicillium verrucosum*. OTA causes nephrotoxicity and renal tumors in a variety of animal species. Various studies have linked OTA exposure with the human diseases Balkan endemic nephropathy (BEN) and chronic interstitial nephropathy (CIN), as well as other renal diseases.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4247821/>

Tranlycypromine glucuronide

Common side effects of tranlycypromine include dry mouth, headaches, diarrhea, urinary hesitancy, insomnia, agitation, anxiety, nausea, and sexual dysfunction.

<https://www.ncbi.nlm.nih.gov/books/NBK459162/>

9-Hydroxy-4-methoxypsoralen 9-glucoside

Has been classified by IARC [115] as possibly carcinogenic to humans.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9497933/>

REFERENCE SOURCES:

Human Metabolome Database (HMDB)

The Human Metabolome Database (HMDB) is a freely available electronic database containing detailed information about small molecule metabolites found in the human body. It is intended to be used for applications in metabolomics, clinical chemistry, biomarker discovery and general education. The database is designed to contain or link three kinds of data: 1) chemical data, 2) clinical data, and 3) molecular biology/biochemistry data.

[https://pubchem.ncbi.nlm.nih.gov/source/Human%20Metabolome%20Database%20\(HMDB\)](https://pubchem.ncbi.nlm.nih.gov/source/Human%20Metabolome%20Database%20(HMDB))