

Heavy metal toxicity = Poison = Neurological damage + Harming the Immune system

Disorders Linked to Heavy Metal Toxicity		
Attention Deficit Disorder	Parkinson's disease	Asthma
Autism Spectrum disorders	Thyroid disorders	Arthritis
Auto-immune disorders	Multiple Sclerosis	Candidiasis
Chronic Fatigue Syndrome	Kidney disease	Epilepsy
Lou Gehrig's disease (ALS)	Schizophrenia	Fibromyalgia
Gulf War Syndrome	Hypertension	Insomnia
Alzheimer's disease	Liver disease	Infertility

Nigella sativa

- Contains Thymol, an active ingredient that has the ability to convert toxic forms of metal to harmless and useful forms
- Exhibits strong antioxidant activity that actively reduces oxidation



Nigella contains Thymol and Thymoquinone which have the ability to neutralise heavy metal, and possess an antioxidant and hepato-protective effect.

HMDetox works in the gastrointestinal tract without burdening the metabolic processes. Together with the harmful substances it is fully eliminated from body within 24 hours.

Human bodies need trace amount of essential minerals such as zinc, iron and magnesium to support normal cellular functions. Common toxic heavy metals such as Lead, Cadmium, Inorganic Arsenic and Mercury exhibit no essential biochemical roles, but exert diverse, severe toxicities in multiple organ systems as they bind in tissues, create oxidative stress, affect endocrine function and interfere with a number of organ functions.

HMDetox Benefits:

- Aid in heavy metal detoxification
- Antioxidant
- Anti -microbial
- Regulate electrolytes
- May delay sign of aging cause by oxidative stress
- Improve nutrient absorption in gastrointestinal tract
- Reduce health risk associated with heavy metal toxicity
- Improve mental and physical functions



HMDetox
NANO-T ACTIVATED

HMDetox is a European proprietary blend of natural nanomized mineral silicate and plant-based detoxifiers that works as an efficient heavy metal chelating agent or detoxifier, and a free radical scavenger that reduces oxidative stress.

Why HMDetox?

Heavy metal detoxication

We are exposed to heavy metals through inhalation of polluted air, industrial exposure, food, water, cosmetic, medications, dental filling, and utensils among other factors. Heavy metal toxicity is the accumulation of toxic heavy metals which can lead to health issues. Heavy metals interfere with normal functions of several organs especially kidney, brain, reproductive system, gastrointestinal, nervous system and liver. Common symptoms of heavy metal toxicity include headache, nausea, vomiting, joint and muscle pain, constipation and fatigue.

Generally, the human body has the ability to eliminate harmful substance via liver detoxification and oxidative stress scavenger pathway. However, when the harmful substances increase uncontrollably, they will settle in cells and lead to intoxication. At this stage, the body's normal detoxification is no longer sufficient; therefore external supplementation is needed to support detoxification.

Common symptoms of heavy metal toxicity;

1. Lethargic
2. Depression
3. Nausea
4. Allergies
5. Food intolerance
6. Frequent headache
7. Muscle and joint stiffness
8. Brain fog

Source of heavy metals:



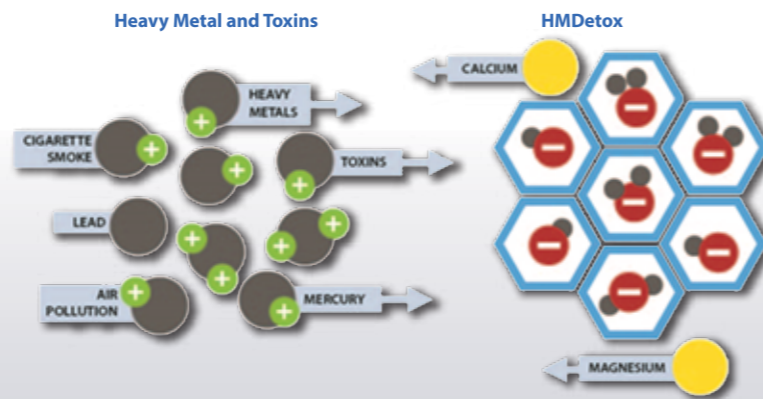
Health risks associated with heavy metal toxicity:

1. Blurred vision
2. Memory loss
3. Increase risk of cancer
4. Joint inflammation
5. Hormonal imbalance
6. Central nervous system disorder
7. Gastrointestinal disorder
8. Inflammation

Mechanism: Absorption and Chelation of Heavy Metals and Toxins

HMDetox contains highly effective metal toxin binding agent and mobilizer. It also carries a natural negative (-) charge and has a high affinity for trapping heavy metals and toxins. Once HMDetox is ingested into the body, it

attracts positively charged (+) toxins and heavy metals out of tissues and blood into its cages. HMDetox will travel through small intestine and coated tiny hair like intestinal villi. Villi are the nutrient absorbing gateways from intestine to bloodstream, hence, blood is purified by HMDETOX without crossing the barrier. Heavy metals and toxins are flushed out through excretory channels. This is known as a chelation process.



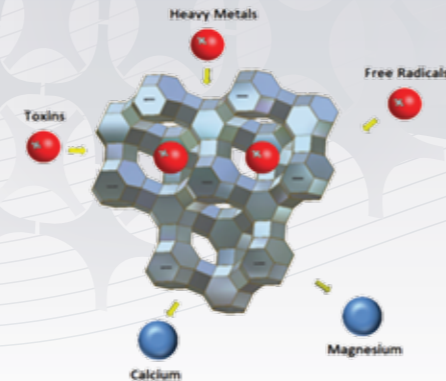
Free Radical Scavenger

The human body constantly undergoes oxidative stress. Oxygen enters the body via respiration, and would split into single atoms with unpaired electrons, known as free radicals. Free radicals also develop during metabolism and the neutralisation of viruses and bacteria by the immune system. In general, free radicals are important for cell signalling and other physiological functions. However, excessive amounts of free radicals can disrupt normal biological functions and cause oxidative damage that would result in the development of a wide range of illnesses and diseases.

In the human organism, there exists a highly evolved complex and sophisticated antioxidant system that acts to protect the cells and organs. This antioxidant system is comprised of enzymes and metabolites that work synergistically and interactively to neutralize free radicals. The human body therefore has the ability to prevent excessive free radicals through this scavenger system. However, under external influences, free radicals are formed in excess. Oxidative stress occurs when the production of free radical is greater than the ability of human body to detoxify free radicals. This imbalance leads to oxidative damage and it is harmful for the cells and tissue.

Mechanism: The Roles Antioxidant against Free Radicals

HMDetox serves as a great antioxidant and has the property to reduce oxidative stress inside the body. It is



inert and its compound is made of specific grid like structure that does not only trap toxins and heavy metals, but also free radicals found in the human body. It possesses different mechanism from other antioxidants. HMDETOX contains both natural mineral and plant-based antioxidants. Besides neutralising and stabilising free radicals, it also has the ability to capture and trap free radicals - together with other harmful substances - in its complex structure, inactivating and eliminating them through excretory channels.

Conditions associated with oxidative stress:

1. Accelerated ageing
2. Arresting effect in spermatogenesis
3. Arteriosclerosis
4. Increased susceptibility to viral infections
5. Cell damage
6. Autoimmune diseases
7. Hepatitis and liver cirrhosis
8. Skin disorders, eczema, melanoma
9. Respiratory disorders
10. Malfunctioning of the immunity system

External factors of oxidative stress:

1. Environmental pollution
2. UV rays
3. Smoking or drinking alcohol
4. Unhealthy diet
5. Excessive exercise
6. Certain medication

Ingredients:

European proprietary blend of Nanomized Natural Organic Food Grade Mineral Silicate and natural blend of plant-based detoxifiers (Coriandrum sativum, Nigella sativa and Chlorella Vulgaris)

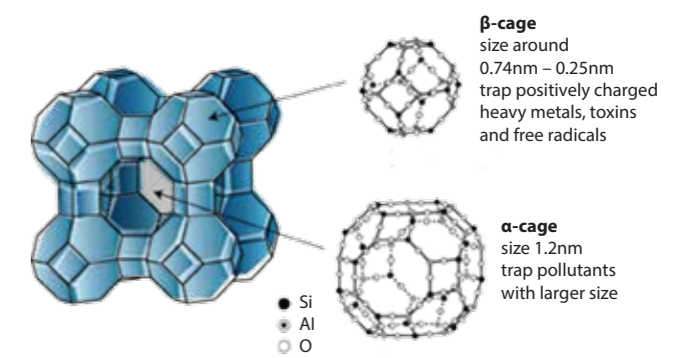
**contain natural calcium and magnesium*

Coriandrum sativum, Nigella sativa and Chlorella Vulgaris are complementary to Nanomized Natural Organic Food Grade Mineral Silicate to provide more efficient and effective detoxification.

Nanomized Natural Organic Food Grade Mineral Silicate

- Hydrates natural mineral containing aluminium, silica and oxygen
- A valuable mineral for a range of detoxification therapies
- Serves as a very effective heavy metal, toxins and free radicals sorbents
- Non-toxic; no cell membrane permeation and remain inert

- Has positive effects as an antioxidant
- Possesses two types of cages known as α -cage and β -cage



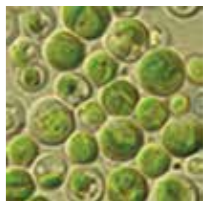
Coriandrum sativum

- Chemical compounds in coriandrum have the ability to mobilize toxic metals out from tissue
- Effective in removing inorganic and methylmercury
- Leads to marked decline in oxidative stress caused by lead nitrate



Chlorella Vulgaris

- Rich in chlorophyll which functions similarly to haemoglobin
- Effective in detoxification of heavy metals, harmful substances and dioxin
- Chlorophyll inhibits dioxin absorption and accelerate its excretion
- Rich in antioxidants, alginic acid and fibre that support in detoxification



The Science behind elimination of neurotoxins with Chlorella and Cilantro combination

Cilantro comes from the plant Coriandrum sativum also commonly known as Chinese parsley. Cilantro has the ability to mobilise heavy metals from the cell membranes to blood and lymph but does not possess the ability chelate heavy metal. Chlorella is an intelligent chelator, and it will chelate the heavy metal that was mobilized by cilantro and eliminate it from the body through excretory channel. A combination of these two ingredients will prevent the body from reabsorbing the toxins; they therefore work synergistically to provide effective detoxification.

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