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Mike ADAMS Cesium Eliminator

<http://www.naturalnews.com/2017-03-28-health-ranger-awarded-u-s-patent-for-breakthrough-anti-radiation-formula-that-eliminates-cesium-137-from-your-body.html>
<http://www.cesiumeliminator.com>

Health Ranger awarded U.S. patent for breakthrough anti-radiation formula that eliminates Cesium-137 from your body

In yet another science breakthrough for humanity, the U.S. patent office has just awarded patent # US 9526751 B2 for a unique formula called “Cesium Eliminator” which eliminates radioactive cesium isotopes from the human digestive tract where contaminated food and water may have been ingested.

I developed this lifesaving invention, which is also described at CesiumEliminator.com, to save lives in the aftermath of a nuclear accident, nuclear terrorism or nuclear war.

The formula is based on a unique combination of zeolites and dehydrated seaweeds which my laboratory (CWClabs.com) has confirmed to be extremely effective at binding with and eliminating cesium-137 from the human digestive tract.

I’m publicly announcing, right now, that I will donate manufacturing and licensing rights for this invention to any state or national government, anywhere in the world, that wishes to use this technology to protect its citizens from nuclear fallout from any cause. I have also stockpiled 10,000 kg of raw materials for this formula in a warehouse in Texas, and I plan to manufacture and donate this product for free to any victims of nuclear incidents that might take place in the continental United States or in the State of Texas.

Lifesaving invention could help save millions of lives following a nuclear disaster, act of terrorism or act of war

As described on CesiumEliminator.com:

Cesium-137 is radioactive isotope produced from nuclear catastrophes like Chernobyl and Fukushima. It’s also a deadly radioisotope created in the aftermath of nuclear bombs.

Cesium-137 has a half-life of 30 years and it mimics potassium in soils and plants. It contaminates soils for 200 – 300 years, making the land unusable for agriculture. Cesium-137

contamination is the reason why no one lives near Chernobyl to this very day.

Once you eat cesium-137, you are irradiating your body from the inside out. This invention eliminates over 95% of cesium-137 from the digestive tract

As the laboratory results chart shows below, this invention eliminates over 95% of cesium elements from the digestive tract, making it extremely effective at protecting the body from absorbing radioactive cesium.

Why is this important? When people drink radioactive water or eat radioactive food, Cesium Eliminator can capture up to 95% of the radioactive cesium elements in food and water before it gets absorbed into the blood stream and gets deposited in soft tissues throughout the body:

Exposure to Cesium-137 causes cancer from high-energy gamma radiation

According to the U.S. Centers for Disease Control:

Exposure to Cs-137 can increase the risk for cancer because of exposure to high-energy gamma radiation. Internal exposure to Cs-137, through ingestion or inhalation, allows the radioactive material to be distributed in the soft tissues, especially muscle tissue, exposing these tissues to the beta particles and gamma radiation and increasing cancer risk.

Even the New York Times, which is often reluctant to report any legitimate scientific truth on topics like vaccine ingredients, acknowledges the harm caused by radioactive cesium-137:

Over the long term, the big threat to human health is cesium-137, which has a half-life of 30 years. The radiation from cesium-137 can throw cellular machinery out of order, including the chromosomes, leading to an increased risk of cancer.

Iodine does not block radioactive cesium

Many people are purchasing iodine products such as potassium iodide or nascent iodine as a defense against radiation. But few people know the truth about iodine: It does NOT block radioactive cesium.

Iodine protects primarily just one organ: your thyroid. And it protects your thyroid from just one radioactive isotope: Iodine-131, which has a half-life of around 7 days.

Iodine does nothing to protect you from radioactive cesium. Iodine, in fact, has no ability whatsoever to block, capture or bind with cesium isotopes. (Iodine binds well with calcium and potassium, however.)

Unfortunately, the over-marketing of iodine for radiation protection has misled many people into thinking they are “bulletproof” against radiation if they take iodine. This is blatantly false.

The best protection comes from covering all routes of exposure to ionizing radiation: air, food, water and direct exposure to radioactive sources (such as fuel rods).

Accordingly, all those preparing against nuclear catastrophe should protect themselves from

all radioactive isotopes, including iodine-131 and cesium-137.

Cesium Eliminator is NOT currently for sale to the public, but we can manufacture it in quantity for state and national governments

Importantly, Cesium Eliminator, the dietary supplement formula based on my U.S. patent, is not currently for sale to the public. Because the primary ingredient of the formula — Zeolites — always contains high levels of aluminum, we are withholding direct sales to the public. This is because we do not want people taking the product as a “vitamin” or a routine supplement. It isn’t a vitamin at all. It’s an emergency use dietary elimination technology that binds with and helps your body eliminate radioactive elements, and it’s only appropriate to be consumed in a dire emergency involving the release of radioactive elements.

(In a pinch, for anyone who wants to take advantage of this discovery in a real emergency, you can simply consume zeolites, knowing that you’ll also be consuming large quantities of aluminum at the same time. But in the race of aluminum vs. cesium-137, it’s far more important to eliminate the cesium.)

US9526751

Cesium Eliminator

Abstract

A dietary supplement comprising powdered ingredients: zeolite powder: 70%-5%, dehydrated seaweed: 5%-25%, seawater extract: 5%-10% Chlorella: 5%-10% and Spirulina: 5%-10%, methods of making and using the composition.

FIELD OF THE INVENTION

[0001] A dietary supplement having affinity for cesium-137 and cesium-134 (radioisotopes).

BACKGROUND OF THE INVENTION

[0002] Cesium Eliminator (CE-137) is a dietary supplement comprising zeolite powder plus four natural ingredients generally recognized as safe (“GRAS”) by the FDA. In combination, they have the property of demonstrating strong affinity for cesium-137 and cesium-134.

[0003] CE-137 is a dietary supplement made of natural ingredients and assembled for the purpose of allowing people to consume the capsules alongside herbs, foods or beverages which they believe may contain radioactive cesium isotopes. Radioactive cesium mimics potassium in plant biology and is the primary long-term pollutant found in areas impacted by nuclear accidents such as Chernobyl and Fukushima. The half-life of cesium-137 is approximately 30 years. The isotope persists in an agricultural environment for 200-300 years with sufficient strength to make all foods grown in such soils too dangerous for consumption by humans or animals.

[0004] CE-137 is intended to be taken orally during a meal in which components of the meal are suspected of containing concerning concentrations of cesium-134 or cesium-137. CE-137 selectively binds with the radioactive cesium isotopes, capturing them and removing them

from the body through normal bowel movements that eliminate fecal matter. The primary benefit is that CE-137 prevents the radioisotopes from being absorbed through intestinal walls and into the bloodstream, thereby limiting the time the radioisotopes exist in the body.

SUMMARY OF THE INVENTION

[0005] An object of the invention is to provide a dietary supplement composition, comprising: powdered ingredients:

- a) Zeolite powder: 70%-95 wt. %
- b) Dehydrated seaweed: 5%-25 wt. %
- c) Seawater extract: 5%-10 wt. %
- d) Chlorella: 5%-10 wt. %
- e) Spirulina: 5%-10 wt. %

particle sizes for all particles can be from #40 mesh to #100 mesh.

[0011] Another object of the invention is to provide a method of producing a dietary supplement composition, comprising combining powdered ingredients as follows,

- a) Zeolite powder: 70%-95 wt. %
- b) Dehydrated seaweed: 5%-25 wt. %
- c) Seawater extract: 5%-10 wt. %
- d) Chlorella: 5%-10 wt. %
- e) Spirulina: 5%-10 wt. %

particle sizes for all particles can be from #40 mesh to #100 mesh.

[0017] Another object is to provide a method of causing cesium-137 and cesium-134 to be excreted from an animal, comprising feeding to an animal in need of fecal excretion of cesium-137 or cesium-134 a dietary supplement containing an effective amount of zeolite powder, wherein about 99% of particles in said zeolite powder are larger than 5 microns, plus effective amounts of dehydrated seaweed, seawater extract, Chlorella, and Spirulina to remove ionic aluminum or lead introduced by the zeolite.

DETAILED DESCRIPTION OF THE INVENTION

[0018] CE-137 is based on five key ingredients: zeolite powder, dehydrated seaweed, seawater extract, chlorella, spirulina. CE-137 is laboratory validated to bind with 96% of cesium atoms during digestion. The zeolite powder is the key element in this formula, as it binds with and captures cesium atoms.

[0019] However, zeolite powders normally release very high levels of aluminum, and somewhat high levels of lead. The other ingredients in the present invention are designed to bind with and capture the excess aluminum and lead that is introduced by the zeolites, allowing zeolites to be safely used to bind cesium.

[0020] Zeolites are, in general, microporous, aluminosilicate minerals of type Clinoptilolite. All zeolite materials contain a high concentration of aluminum in its structure. All zeolites also contain lead. Typically, zeolites which are digested in gastric acid release significant concentrations of aluminum, and much lower concentrations of lead. This invention makes use of chemistry discoveries and methods which minimize these releases of aluminum and lead, resulting in them being measured at near-zero levels.

[0021] It is believed that CE-137 works on a combination of physical adsorption as well as ion exchange. Without being bound by theory, it is thought that the zeolite physically adsorbs cesium atoms due to its unique physical structure. This adsorption process works in the same way that carbon (charcoal) adsorbs mercury. That is, it is a physical binding process, not necessarily a chemical ion exchange.

[0022] The aluminum and lead given off by zeolites are bound and captured by the other ingredients in the formula. It is thought that the Al and Pb are bound using ion exchange processes.

[0023] The finished CE-137 product is provided as an encapsulated powder. The powder is generally grayish white in color.

[0024] CE-137 is a dietary supplement comprising zeolites of size from #50 mesh to #100 mesh, plus natural ingredients assembled for the purpose of allowing people to consume the capsules alongside herbs, foods or beverages which they believe may contain cesium isotopes. CE-137 binds to cesium ions and prevents them from being absorbed through intestinal walls during digestion. Most dietary substances show little or no selective affinity for cesium when subjected to an identical testing process.

[0025] During digestion the gastric acid found in human stomachs interacts with CE-137 ingredients, causing them to attain a high state of affinity for ionic heavy metals such as lead and aluminum. Heavy metals tend to carry positive charges such as Aluminum (+3), Lead (+2), etc. CE-137 carries a strong negative ionic charge, once activated, causing it to bind with lead and aluminum.

[0026] The formula of the invention bind with and carries cesium isotopes plus the heavy metals introduced with the zeolites through the entire digestive tract, ultimately transporting the heavy metals out of the body and preventing them from being reabsorbed through intestinal walls.

Radiation Defense Ingredients Preparation

[0027] The following section describes the harvesting and preparation of each ingredient in the formula:

[0028] Zeolite powder (Clinoptilolite powder) is obtained by mining zeolite material from zeolite-rich mines which are located in North America and other nations such as Turkey. Raw zeolite material is scooped out of the ground using excavation equipment such as a Caterpillar 20-ton excavator. The material is loaded into large trucks which transport it to a washing station to remove dust and soil debris. Once washed, the material is dried and then milled to the desired mesh size.

[0029] Dehydrated seaweed: Seaweed specimens are collected by swimmers from shallow coastal waters and stacked in a large washing container. They are washed to remove debris and salt water. After washing they are dried using a large commercial air dryer with a slow mixing/agitation wheel in order to allow the seaweed sufficient exposure to air. Once fully dried, the seaweed specimens are ground to a power of approximately a #100 mesh size, producing a gray-white powder. This powder is packaged for use in manufacturing.

[0030] Seawater extract: A saturated salt (brine) area of seawater is identified, usually at very low depth. The water is extracted by means of a long pump, then mixed with dolomitic limestone ($\text{CaMg}(\text{CO}_3)_2$) to precipitate solids. The mixture is heated to high temperature, driving off the carbon dioxide and leaving “calcined dolime,” a seawater extract. This solid material is ground to approximately #100 mesh particle size.

[0031] Chlorella: Strains of the single-celled algae known as *Chlorella vulgaris* are grown in large vats of water and fed sufficient nutrients to support their growth to maturity. Once fully grown, chlorella is harvested out of the water by means of large filters which separate the chlorella alga from the water in which they were grown. This green mass is rinsed with fresh water, flash dried on a conveyor belt, then agitated by powerful sonic blasts in order to disrupt their cell walls and provide improved bioavailability. Finally, this green mass is powdered to a relatively large mesh size of around #40 mesh.

[0032] Spirulina: *Spirulina pacifica* is a strain of edible blue-green algae which can be grown in large outdoor pools which combine fresh water with deep ocean water that enriches the spirulina with minerals. Once fully grown, the spirulina is harvested from the water by means of large filters giving a green mass which is rinsed with fresh water, flash dried on a conveyor belt, then ground to a relatively large mesh size of around #40 mesh.

[0033] Particle sizes of the above ingredient are specifically chosen to avoid passing through intestinal walls (99% of particles are >5 microns in diameter).

[0034] Carriers and processing aids may be used to obtain satisfactory flow and packaging characteristics. These excipients can include antitacking agents such as talc, stearic acid, magnesium stearate and colloidal silicon dioxide and the like, surfactants such as polysorbates and potassium lauryl sulphate, fillers such as precipitated calcium carbonate, polishing agents such as beeswax and the like. All these excipients can be used at levels well known to the persons skilled in the art

[0035] In general the product is manufactured in an environment free of airborne metals in order to preserve the ion exchange “potential” of the raw materials.

[0036] In another embodiment, zeolite powder can be consumed separately, along with dehydrated seaweed: 5%-25%, Seawater extract: 5%-10%, Chlorella: 5%-10%, Spirulina: 5%-10%, with the Zeolite powder again constituting 70%-95%.

Laboratory Protocol for Validation of CE-137

[0037] CE-137 is specifically designed to minimize the release of aluminum and lead which are both typically released by zeolites. A typical off-the-shelf zeolite, when 3 grams are combined with 20 ml of synthetic gastric acid, will release approximately 8 mg of aluminum and 40 micrograms of lead. CE-137 reduces the release of these metals to approximately 20 micrograms of aluminum (or almost 1/500th the typical release) and near-zero micrograms of lead.

[0038] The following protocol is used for laboratory validation of the CE-137 formula:

[0039] First, all laboratory protocols for handling radioactive substances must be followed, including operating air exchange filters, wearing protective lead vests, wearing protective

lead-based goggles and wearing respirators with filters that can capture and remove airborne radioactive dust.

[0040] In addition, radiological samples must be acquired through legal processes requiring registration and licensing with the Nuclear Regulatory Commission (NRC). All safety protocols and laboratory procedures customarily used for handling radioactive materials must be strictly followed.

[0041] One gram of CE-137 formula is placed in a polypropylene vial (vial #1). A second vial is set aside for control testing (vial #2), with no CE-137 placed in it (zero grams).

[0042] To each vial, 20 ml of synthetic gastric acid is added. This acid has a pH of around 1.0 and is made of deionized water (DI), hydrochloric acid (HCl), sodium chloride and potassium chloride, all in ratios that mimic typical human gastric acid.

[0043] A 2 ml liquid “spike” of radioisotope Cs-137 is then added to both vials using precise volumetric liquid handling via pipette. This spike contains a known concentration of Cs-137, typically in the range of 5 ppm-15 ppm. The strength of the radiation given off by the Cs-137 is not relevant, only the concentration of cesium atoms.

[0044] Both vials are then subjected to simulated digestion for a period of 8 hours. This digestion consists of human body temperature and agitation designed to mimic digestion in the human stomach.

[0045] After digestion, both vials are filtered through a 2-micron filter to remove any solid particles which would be too large to pass through intestinal walls. 5 ml of the remaining liquid is extracted from each vial and placed in a fresh, new vial in preparation for acid digestion. 5 ml of nitric acid (HNO₃) is added to each vial. Both vials are digested via HotBlock digestion, at a temperature of 100° C. for a period of two hours. The vials are then removed from the HotBlock and allowed to cool.

[0046] Both vials are then normalized to 50 ml total volume using a blank acid normalization liquid made of DI water, 2% HNO₃ and 0.5% HCl. These vials are placed in an autosampler connected to an ICP-MS atomic spectroscopy instrument which has been calibrated by the manufacturer and validated by field technicians.

[0047] The instrument runs a multi-element custom calibration process followed by a mid-range calibration check. Calibration blanks are also run before and after the samples in order to further confirm the accuracy of the instrument. External calibration solutions are prepared and run at 0 ppb, 1 ppb, 10 ppb, 100 ppb and 1000 ppb concentrations. An internal standard is mixed with the sample intake liquid for analysis accuracy.

[0048] Unknown samples are then run and concentrations of analytes are calculated from the calibration runs, as is customary in all ICP-MS laboratory operations. Specifically, analytes tested in this protocol must include Cs, Al and Pb. The cesium concentration found in vial #2 provides the “baseline concentration” of cesium atoms in the total 22 ml of synthetic gastric acid. Cesium concentrations found in vial #1 are then compared to the baseline. The difference in the two concentrations is the reduction of cesium-137 concentration caused by the CE-137 formula.

[0049] In addition, Al and Pb concentrations found in vial #1 are compared to zero, which is the level of Al and Pb in the gastric acid. All Al and Pb found in vial #1 are known to have been released by the CE-137 formula, which is specifically designed to substantially minimize these releases.

[0050] In this laboratory testing. CE-137 was shown to accomplish approximately a 96% reduction in Cesium-137. In addition, the introduction of aluminum and lead, both typically released by zeolite materials, are minimized essentially to zero due to the ion exchange effects of the accompanying materials in the CE-137 formula; resulting in Al below 1 ppm, and resulting in Pb below 50 ppb.

[0051] Most dietary substances, when subjected to an identical testing process show little or no selective affinity for cesium-137 binding.

Encapsulation Process

[0052] The CE-137 powder is encapsulated and packaged using traditional powder encapsulation methods which are customarily used in dietary supplements manufacturing. Specifically, raw materials are weighed, apportioned and blended using a large commercial blender. The resulting blended power is deposited into the encapsulation machine. Empty vegetarian capsules are also deposited into the machine. The machine opens each capsule and fills each capsule with approximately 400 mg of power, then firmly closes each capsule.

[0053] Capsules are then counted by machine and dropped into supplement bottles. Desiccants are dropped into the bottles to absorb moisture. A capper affixes a cap with a special seal containing both a sealant and a thin metallic element which is sensitive to induction. An induction machine exposes the lid of the bottle to a brief electric current sufficient to create heat to seal the top of the bottle, under the lid. A shrink bander machine affixes a shrink band around the neck of the bottle. A heat tunnel shrinks the shrink band, creating a tight seal. A labeler affixes the product label. The bottle is then boxed into cases for distribution.
