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DETOX QUBE

RISK FACTORS OF AN IMPAIRED GLUTATHIONE SYSTEM:

- Uncontrolled oxidative stress
- Impaired immune function
- Poor detoxification
- Low energy

THERAPEUTIC BENEFITS OF THE DETOX QUBE:

- Increased glutathione levels
- Rebuild the detoxification system
- Lower toxic burden
- Support immune function

DR. CHRISTOPHER SHADE, founder & CEO of Quicksilver Scientific, obtained his Ph.D. in environmental metals chemistry from the University of Illinois. The Detox Qube™ demonstrates his superior liposomal delivery systems for the nutraceutical and wellness markets and sets a new standard for the industry.
The Detoxification System

Efficient detoxification depends on a series of seamless reactions that bind toxins to shuttle-molecules (e.g. glutathione) and escort them through a series of doors and out the body. Detoxification proceeds in Phases (I, II, and III), which need to be harmoniously coupled.

Healthy Detoxification of mercury and other heavy metals requires three fundamental conditions: 1) Adequate intracellular glutathione levels, 2) Fully functioning Phase II enzyme, Glutathione S-Transferase (GSTs), and 3) Fully functioning Phase III detoxification transporters (MRP1&2, OATP).

Impaired Detoxification results from inflammation and/or the buildup of toxins in the GI tract. This intestinal block downregulates Phase III transport and subsequently Phase II activity as well. The lowered Phase II activity then fails to adequately quench free radicals from Phase I, resulting in oxidative stress.

Healthy Detoxification

<table>
<thead>
<tr>
<th>Phase</th>
<th>Process</th>
<th>Normal Small Intestine</th>
<th>Inflamed Small Intestine</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Oxidative Activation</td>
<td>Normal Small Intestine</td>
<td>Inflamed Small Intestine</td>
</tr>
<tr>
<td>II</td>
<td>Glutathione Conjugation</td>
<td>Normal Small Intestine</td>
<td>Inflamed Small Intestine</td>
</tr>
<tr>
<td>III</td>
<td>Glutathione Excretion</td>
<td>Normal Small Intestine</td>
<td>Inflamed Small Intestine</td>
</tr>
</tbody>
</table>

IMD (1 bottle)

Intestinal Metal Detox (IMD) binds heavy metals in the intestines to prevent their absorption; interrupts enterohepatic circulation of metals; and accelerates the natural toxin transport system. IMD delivers insoluble thiol groups to bind and remove heavy metals accumulated in the intestines and to directly quench free-radicals. IMD’s actions enhance Phase III Detoxification—the system of transporters leading out of the body. Without the proper functioning of these transporters, efficient detoxification is not possible. IMD is a proprietary food additive product that consists of highly purified silica with covalently attached metal-binding groups. Both the silica base and the binding agent are GRAS (Generally Recognized as Safe) for use in food.

Clear Way Cofactors (2 bottles)

Clear Way Cofactors are made of a) phytonutrient antioxidants and R-Lipoate for Phase II detoxification enzymes, b) selenium, organic iodine, and B1, B5, and B6, and c) Lumbrokinase to break down biofilms. This proprietary blend of phyto-extracted polyphenolics; sodium buffered R-Alfa Lipoic Acid (Na-RALA); targeted vitamins (B1, B5, B6); selenium, kelp extract and Lumbrokinase is designed to clear and maximize efficiency of metal detoxification pathways. Polyphenolic antioxidants—such as those found in pine bark extract and Haritaki fruit (Terminalia Chebula)—have demonstrated efficacy in activating a “cellular master switch” called the Nrf2 protein. This protein turns on the intracellular production of several antioxidants, including glutathione, and detoxification molecules such as the Phase II enzyme Glutathione S-transferase. Polyphenols also feature anti-inflammatory properties, anticarcinogenic activity and the ability to through the blood-brain barrier. This formula has profound implications for healthy aging as well as detoxification!

Glutathione (6 bottles)

Glutathione is the master detoxifier and the body’s main antioxidant. Toxins become linked to glutathione, which then carries them into the bile and the stool and out of the body. It protects each cell’s delicate chemical machinery and helps energy metabolism run efficiently. Naturally occurring in the body, Glutathione is also integral to the immune system and increases resistance to viruses, though production of Glutathione decreases with age, stress, and disease states. Etheric Delivery is the optimal delivery system for this delicate compound, as absorption of glutathione by typical oral delivery is greatly inhibited by breakdown in the stomach.

Vitamin C with R-Lipoic Acid (6 bottles)

This is the most absorbable form of professional-grade Vitamin C on the market today. Vitamin C is essential to any detoxification program, because it feeds the system that eliminates toxins. It is also effective in removing lead and other heavy metals from our system and fighting off the free radicals that form in the liver during the first phase of detoxification.

R-Lipoic Acid (as sodium R-Lipoate) has a well-documented ability to up-regulate the glutathione system via the Nrf2 nuclear transcription pathway. This combination of Vitamin C with R-Lipoate in liposomal delivery potently harnesses the potential of Vitamin C to the power of a fully functioning glutathione system. The absorption of conventional oral Vitamin C diminishes rapidly as the dose increases (e.g., ~99% for 1000 mg oral vitamin C), and our lipid nanoparticles greatly increase absorption! In fact, for certain compounds, liposomes can provide higher intracellular delivery than an IV.
### Quicksilver Dosage Protocol:

**Quicksilver Therapeutic Detox Dosage Level 1:**
*Days "On" is typically 5 days per week, usually M-F*

<table>
<thead>
<tr>
<th>Time</th>
<th>Supplement Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Morning</strong></td>
<td></td>
</tr>
<tr>
<td>On rising</td>
<td>1/2 or 1 scoop IMD in 4-6 oz water with 2 pumps Etheric Vitamin C with R-Lipoic Acid</td>
</tr>
<tr>
<td>10-15 min later</td>
<td>2 or 3 caps Clear Way Cofactors and 2 pumps Etheric Glutathione</td>
</tr>
<tr>
<td><strong>Lunch Time</strong></td>
<td>Lunch</td>
</tr>
<tr>
<td><strong>Dinner Time</strong></td>
<td>~30 min before dinner</td>
</tr>
<tr>
<td></td>
<td>2 pumps Etheric Vitamin C with R-Lipoic Acid and 2 pumps Etheric Glutathione (or can be done before bed)</td>
</tr>
</tbody>
</table>

**Days "Off" is typically 2 days off for Level 1, usually Sat-Sun**

- Take a Multimineral according to directions at full or higher dosage and consider an extra 15-30 mg of Zinc

Note: All timing blocks are flexible (e.g. If there is fatigue, try taking the "On rising" supplements at night.). If Clear Way gives any upset stomach, take with meals. If taking Rentone, take 2-3 per day in divided doses with meals.
# Quicksilver Therapeutic Detox Dosage Level 2:

**Days "On" is typically 5 days per week, usually M-F, but can jump to 10 days**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Morning</strong></td>
<td><strong>On rising</strong> 2 scoops IMD in 4-6 oz water with 2 pumps Etheric Vitamin C with R-Lipoic Acid</td>
</tr>
<tr>
<td></td>
<td>10-15 min later 2 or 3 caps Clear Way Cofactors and 2 pumps Etheric Glutathione</td>
</tr>
<tr>
<td><strong>Lunch Time</strong></td>
<td>~30 min before lunch 2-4 pumps Etheric Vitamin C with R-Lipoic Acid and 2-4 pumps Etheric Glutathione</td>
</tr>
<tr>
<td></td>
<td>Lunch Mineral supplements as needed</td>
</tr>
<tr>
<td><strong>Dinner Time</strong></td>
<td>~30 min before dinner 2 pumps Etheric Vitamin C with R-Lipoic Acid and 2 pumps Etheric Glutathione (or can be done before bed)</td>
</tr>
<tr>
<td></td>
<td>10-15 min later 2-3 caps Clear Way Cofactors</td>
</tr>
</tbody>
</table>

**Days "Off" is typically 2 days off for Level 2, usually Sat-Sun, but will go to 4 if Days "On" goes to 10**

Take a Multimineral according to directions at full or higher dosage and consider an extra 15-30 mg of Zinc

Note: All timing blocks are flexible (e.g. If there is fatigue, try taking the "On rising" supplements at night.). If Clear Way gives any upset stomach, take with meals. If taking Rentone, take 2-3 per day in divided doses with meals.
### Quicksilver Therapeutic Detox Dosage Level 3 Intensive:

Days "On" is typically 10 days. Usually patient does 2-4 cycles like this, but more may be needed for strong clinical response.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Supplement &amp; Product Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Morning</strong></td>
<td>On rising</td>
<td>2 scoops IMD in 4-6 oz water with 4 pumps Etheric Vitamin C with R-Lipoic Acid</td>
</tr>
<tr>
<td></td>
<td>10-15 min later</td>
<td>2-4 caps Clear Way Cofactors and 3-6 pumps Etheric Glutathione</td>
</tr>
<tr>
<td>Lunch Time</td>
<td>~30 min before lunch</td>
<td>2-4 caps Clear Way Cofactors, 4-6 pumps Etheric Vitamin C with R-Lipoic Acid and 3-6 pumps Etheric Glutathione</td>
</tr>
<tr>
<td></td>
<td>Lunch</td>
<td>Mineral supplements as needed</td>
</tr>
<tr>
<td>Dinner Time</td>
<td>~30 min before dinner</td>
<td>1-2 scoops IMD with 4 pumps Etheric Vitamin C with R-Lipoic Acid (or can be done before bed)</td>
</tr>
<tr>
<td></td>
<td>10-15 min later</td>
<td>2-4 caps Clear Way Cofactors and 3-6 pumps Etheric Glutathione (or can be done before bed)</td>
</tr>
</tbody>
</table>

**Days "Off" is typically 4 days off for Level 3**

Take a Multimineral according to directions at full or higher dosage and consider an extra 15-30 mg of Zinc

Note: All timing blocks are flexible (e.g. If there is fatigue, try taking the "On rising" supplements at night.). If Clear Way gives any upset stomach, take with meals. If taking Rentone, take 2-3 per day in divided doses with meals.
IMD – Product Overview:

The Intestinal Metals Detox (IMD) is a proprietary product that consists of highly purified silica carrier with covalently attached metal-binding groups. The product is insoluble and functions to bind heavy metals in the gut so that they can be safely eliminated with the bowels; this prevents both absorption of the heavy metals and the generation of free-radicals catalyzed by the metals. In fact, the product can also directly neutralized free-radicals in the gut and thus may play a role in damping gastrointestinal inflammation. Both the silica base and the binding agent are GRAS (generally recognized as safe) for use in food, but since the binding agent is firmly attached to the insoluble silica, it is not absorbed and thus not bioavailable. The product contains no known allergens and no allergic reactions have been reported to date.

Directions for use:

Dosage: The basic adult dose is 100 mg (one level scoop) once a day. For advanced use take up to 200 mg 2 times per day. For sensitive patients start with a half dosage or less and work up as tolerated.

Administration: IMD can be mixed with liquids or oils to create a suspension; drink quickly to avoid settling of the particles. The best liquids for the suspension are soluble Vitamin C solutions, such as QuickSilver Scientific’s Therasomal Vitamin C + R-lipoic acid or sodium ascorbate. If there is sensitivity to vitamin C, a bit of lemon juice in water or a fruit juice will work. IMD can also be added to smoothies. Oil suspensions are made by adding one or more spoons of IMD to ~1/2 Tbsp of oil and consumed.

For cleaning metals from the intestinal epithelia and transport proteins, it is best on am empty stomach with Vitamin C. For stopping enterohepatic circulation of metals, it works well taken after food in a spoon of oil (e.g. pumpkin seed oil, 3-6-9 oil blends, coconut oil, ghee). For advanced use a combination of the two (aqueous and oil-based) should be used.

Regimen: The general regimen is to cycle in multiples of 5-on and 2-off (e.g. 5 days on/2 days off, 10 days on/4 days off, or 20 days on/8 days off). The longer the “on” period, the more aggressive the cleanse. Some acute problems do better with continuous administration until symptoms abate. Use Mineral supplements and tonic formulas on days “off.

Most people experience a need for more sleep at night, but if pronounces fatigue is experienced during the day, the dosage can decreased until comfortable. For some people, taking IMD at night lessens the fatigue experienced during the day. Fatigue is often eliminated by higher mineral supplementation.

Duration of Treatment: The speed/intensity of the detox can be controlled by the dosage. The basic course of use is 4-6 months, though use of up to a year or more is necessary for a deeper cleaning. Periodic use after the main cleanse (one month, one to two times per year) is helpful for two reasons: 1) to remove new accumulations, and 2) because deeper deposits that may not be accessible during the first cleanse can move out and become more available after the body adjusts to the first cleanse.

Cleanse Support:

The bodily detoxification systems need to be supported during the cleanse. The most important systems to support are liver, digestive/bowel, vasculature, lymph, and kidney. Both allopathic and homeopathic support work well with IMD. Ask about our Pre-Tox Program to prepare heavily challenged or very sensitive patients for IMD.

QuickSilver Scientific’s Clear Way Cofactors contains a synergistic blend of polyphenolic antioxidants (Haritaki, pine bark extract, pomegranate extract, quercetin), R-Lipoic acid, seaweed extract, Vitamins B1, B5, and B6, and selenium, to build Phase II detoxification enzyme activity and protect and strengthen the vasculature, Gotu Kola and Bacopa extracts to bolster cognitive functioning, and high-potency Lumbrinakinase clear biofilms from the intestines. This formula blends perfectly with IMD to catalyze a whole body detoxification of metals and other environmental toxins, as well as biotoxic elements created by chronic infectious agents.

Healthy glutathione levels are imperative for effective detoxification. Though IMD, Therasomal Vitamin C + R-Lipoic Acid and Clear Way Cofactors will support healthy levels of glutathione, Therasomal Nanoshpere Glutathione provides an excellent complement to IMD when glutathione is heavily challenged. QuickSilver Scientific’s Therasomal EDTA + R-Lipoic Acid combined with IMD creates a powerful broad-spectrum metal detox, covering all metals from mercury to cadmium, lead, arsenic, nickel, and more.

Ensure proper GI tract flora with high-quality probiotic supplementation and, if necessary, more aggressive phytoextracts for parasite control. Some patients experience temporary increase in sulfurous flatulence. This usually passes after flora is balanced; if it does not, look for parasite infections. Low carbohydrate diets are best for cellular cleansing. Bowels must move one to two times per day and lymph drainage must be supported with gentle exercise and/or massage.
Protocols for Hg Detox in Patients with Impaired Kidneys

These protocols are directed at patients with either known kidney insufficiency (e.g. poor creatinine clearance) or with poor urine: blood ratios in their Quicksilver Mercury Tri-test. These supplements and protocols will increase efficiency of kidney clearance, making the detox much more efficient and symptom free, and will help restore the health of the kidneys. Since mercury’s primary pathology is nephrotoxicity, often the poor kidney health is rooted in mercury and the decreased function anchors the pathology by preventing the elimination of the toxic source.

Supplements for use with Kidney problems:

1) **Soluna Renalin Spagyric Homeopathic** – this is a European product that gently yet deeply increases kidney function
2) **Soluna Lymphatik Spagyric Homeopathic** – this is a European product that helps move lymph and cleanses blood and lymph
3) **Ayush Herbs Rentone** - an Ayurvedic formula from a well respected producer or organic Ayurvedic Herbs; powerfully changes kidney function and rapidly changes stubborn urine: blood ratios or inorganic mercury
4) **Quicksilver Scientific IMD 30X** – a 30X potentized homeopathic dilution of IMD; used orally, but also may be sprayed directly on skin over kidney
5) **Quicksilver Scientific Therasomal Glutathione** - this nanosphere reduced L-glutathione is easily assimilated and can calm the oxidative stress and inflammation common with kidney dysfunction
6) **Quicksilver Scientific Therasomal Vitamin C/R-Lipoic acid** - this nanosphere delivery antioxidant works to quench oxidative stress and the R-Lipoic Acid chelates inorganic mercury and removes it through the liver and gall bladder instead of the kidney, taking some of the mercury load off of the kidney
7) **Original Quinton Isotonic Marine Plasma** – this French product has been used since before the turn of the century to clear and heal the extracellular matrix and increase output of the kidney

**QS Kidney Protocol #1:**

This protocol is for lighter stimulation of kidney function either before or during main detox with IMD. **Products: Soluna Renalin, Soluna Lymphatik, QS IMD 30X, and Original Quinton Isotonic**

- Soluna Renalin (10 drops), Soluna Lymphatik (10 drops), and Quicksilver Scientific IMD 30X (1 dropper), each spaced 2-5 min apart and taken 3X per day if in preparation for detox or 2X per day if used during the detox.
- Use for 4 weeks
- Addition of 2 ampoules of Original Quinton Isotonic Marine Plasma daily on empty stomach will enhance kidney output
• Use of Quicksilver Scientific’s Therasomal Vitamin C/R-Lipoic Acid during the detox phase – 1 dropper full 4 times per day – will redirect some of the mobilized mercury from the kidneys through the liver/gall bladder to the intestines

**QS Kidney Protocol #2:**

This protocol is for more advanced kidney dysfunction and is used before full detox with IMD or with small doses of IMD (30-50 mg/day). **Products:** Soluna Renalin, Soluna Lymphatik, QS IMD 30X, Ayush Herbs Rentone, and Original Quinton Isotonic.

- Soluna Renalin (10 drops), Soluna Lymphatik (10 drops), and Quicksilver Scientific IMD 30X (1 dropper), each spaced 2-5 min apart and taken 3X per day if in preparation for detox or 2X per day if used during the detox.
- Ayush Herbs Rentone 3 caps per day with or without food; you often have to work up from one per day over one to two weeks.
- Use protocol for 4-6 weeks before full detox
- Addition of 2 ampoules of Original Quinton Isotonic Marine Plasma daily on empty stomach will enhance kidney output
- Use of Quicksilver Scientific’s Therasomal Vitamin C/R-Lipoic Acid during the detox phase – 1 dropper full 4 times per day – will redirect some of the mobilized mercury from the kidneys through the liver/gall bladder to the intestines

**QS Kidney Protocol #3:**

This protocol is for very advanced kidney dysfunction with high mercury, where sensitivity to alcohol is a problem. **Products:** QS IMD 30X, Ayush Herbs Rentone, QS Therasomal Glutathione, and Original Quinton Isotonic.

- Ayush Herbs Rentone 3 caps per day with or without food
- Quicksilver Scientific IMD 30X - 10 drops 3X per day in a little warm water to disperse alcohol, taken away from food by 15 minutes
- Quicksilver Scientific Therasomal Glutathione – 100mg (1 pump) 2X per day on empty stomach
- 2 ampoules of Original Quinton Isotonic Marine Plasma daily on empty stomach, preferably immediately before IMD 30X
- Use protocol for as long as needed until you can proceed to more complete detox
**What Makes a Good Liposome?**

**EFFICIENT COMPOUND DELIVERY**
Liposomes are microscopic single- to multi-layer spheres made of phospholipids—the basic building blocks of cell membranes. We engineered these phospholipids to encapsulate compounds, in order to bypass the digestive processes that normally degrades or limits compound absorption.

**FAST ABSORPTION**
Our liposomes bring the power of intravenous therapy into convenient oral delivery. Unlike other liposomes on the market that use low grades of phospholipids (e.g. raw lecithin), which breakdown and do not deliver compounds effectively, the high-phosphatidylcholine phospholipid mixes are smaller, more stable, and tightly distributed single-layer spheres (unilamellar vesicles). Our vesicles are small enough to begin absorption as soon as they hit your mouth.

**PARTICLE SIZE**
Most nutraceutical manufacturers typically use cheap shear methods resulting in large particles (200–600nm) that absorb poorly. Most of our particle systems fall in the same 50–100nm range that pharmaceutical companies target.

**EXCELLENT CHEMISTRY**
Well-engineered liposomes have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly, and enhance lymphatic circulation of therapeutic compounds.

**SMART INGREDIENTS**
The phospholipids that compose the liposome shell feed the cell membranes themselves. This promotes proper cellular function, like the absorption of nutrients and the excretion of cellular waste products and toxins.

**FEEL THE DIFFERENCE OF A CLEAN CELLULAR SPACE:**
- Stabilize cellular membrane structures
- Feed intracellular detoxification reactions
- Stimulate bile flow and extracellular drainage
- Optimize liver, neurological, and cardiovascular function

*Turn on the Bright Light of the Cell!*
**Pure PC (2 bottles)**

**Phosphatidylcholine** (PC) is the most predominant building block of animal and plant cell membranes. It’s also an integral part of the structure of circulating lipoproteins. A normal constituent of bile that facilitates fat emulsification, absorption, and transport, PC provides choline (an essential nutrient and must be obtained from the diet) to the entire body. Sufficient levels of PC have been shown to support many biochemical pathways, enhance physiology, and restore critical functions such as liver detoxification of chemicals, heavy metals, and xenobiotics; fat metabolism; improved cholesterol levels; and reduced platelet aggregation risk; plus increased endurance for physical performance and improved post-exercise recovery. PC supplementation has also demonstrated increased availability of the important neurotransmitter acetylcholine within the brain, leading to improved memory, cognition, and mood in disorders such as dementia, Alzheimer’s disease and bipolar disorder.

**Methyl B-Complex (1 bottle)**

This innovative formula contains B1 (thiamine hydrochloride), B2 (as riboflavin 5-phosphate), B3 (as equal mix of niacin and niacinamide), B5 (as calcium pantothenate), B6 (as pyroxadal 5-phosphate), B7 (biotin), B9 (as folic acid), B12 (as methylcobalamin), betaine anhydrous (trimethylglycine), and hydroethanolic extract of milk thistle. No liposome of this complexity has ever been successfully created!

Our liposomal Methyl B-Complex is the first of its kind to pack such a comprehensive array of B-vitamin chemistry into a single product. Our use of folic acid along with activated forms of B2 and B6, methyl B12, and trimethylglycine provides all of the factors necessary for healthy methylation processes, without forcing methylation or creating “methyl traps.” Also novel to the industry, our use of milk thistle extract balances gall bladder/bile flow with the liver up-regulation brought about by B-vitamins.

**Dr. Shade’s Bitters #9 (2 bottles)**

A proprietary blend of dandelion, milk thistle, solidago (goldenrod), gentian, burdock, sweet orange essential oil, myrrh, juniper essential oil, and clove essential oil, this liposomal bitters formula harkens to the medicinal herb tinctures and digestifs of Old Europe. However, this liposomal bitters blend is specially formulated to promote healthy gall bladder/bile flow and robust liver function to promote detoxification. Delicious neat or pumped into seltzer water, Dr. Shade’s Bitters #9 complements any meal.

**Glutathione (2 bottles)**

**Glutathione** is the master detoxifier and the body’s main antioxidant. Toxins become linked to glutathione, which then carries them into the bile and the stool and out of the body. It protects each cell’s delicate chemical machinery and helps energy metabolism run efficiently. Naturally occurring in the body, Glutathione is also integral to the immune system and increases resistance to viruses, though production of Glutathione decreases with age, stress, and disease states.

Etheric Delivery is the optimal delivery system for this delicate compound, as absorption of glutathione by typical oral delivery is greatly inhibited by breakdown in the stomach.

---

**The Black Box professional liver detoxification system is a 4-week protocol designed to help restore proper liver function by:**

1. Feeding and stabilizing cellular membranes and membranous organelles (e.g. the endoplasmic reticulum, mitochondria, and golgi body) with Phosphatidylcholine, 2) increasing cellular detoxification reactions and freeradical control with Glutathione, Milk Thistle, and Methyl B-Complex, and 3) enhancing bile flow with the bitter herbs in Dr. Shade’s Bitters #9.

---

**The Advantages of Liposomal Delivery**

**FUNDAMENTAL**

Liposomes are made of phospholipids—the basic building blocks of cell membranes—and encapsulate nutritional compounds. The combined benefit promotes healthy cellular function.

**SMALL & FAST**

Our tiny liposomes are rapidly absorbed, starting in the mouth.

**WATER-SOLUBLE COMPOUNDS**

**LIPID-SOLUBLE COMPOUNDS**

**BIOAVAILABLE**

These encapsulating phospholipids bond with cell membranes to facilitate intracellular delivery.

**HIGHEST QUALITY**

We use the same laboratory equipment, rigorous processes, and tight particle-size controls used by the best pharmaceutical companies.
**PURE DELIVERY**
-of-
**PURE INGREDIENTS**
-for-
**PURE EXPRESSION**
-of-
**PURE BODY**
-and-
**PURE MIND**

**IT’S PURE GENE-IUS.**

---

**SUPERIOR PHOSPHOLIPID ENCAPSULATION**

Produced by Quicksilver Scientific, Etheric Delivery™ and Golden Particle Delivery™ bring the power of intravenous therapy into convenient oral delivery. The PurXpressions™ product line drastically improves on liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, nanospheres like those produced by Quicksilver Scientific have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly, and enhance lymphatic circulation of nutrients. In fact, phospholipid therapy, using both injectable forms and oral forms, has a long and solid clinical history for repair and maintenance of liver function, circulatory health, and neurological health.

---

**DR. CHRISTOPHER SHADE**, founder & CEO of Quicksilver Scientific, obtained his Ph.D. in environmental metals chemistry from the University of Illinois. PurXpressions™ demonstrates his superior liposomal delivery systems for the nutraceutical and wellness markets and sets a new standard for the industry.

---

**PurXpressions™ is produced by Quicksilver Scientific**

1376 Miners Dr., Ste. 101, Lafayette, CO 80026

www.purxpressions.com, (303) 531-0861
The new PurXpressions™ line of consumer-direct dietary supplements from Quicksilver Scientific is designed to facilitate safe detoxification and help reverse potential epigenetic changes brought about by toxin exposures and pathogens (infections). By removing toxins and inputting the highest quality compounds, this product line will help restore your highest genetic potential, enhancing general health and energy levels. These products are fast and easy to absorb and feature the liposomes and lipid nanoparticles of the Etheric Delivery™ and Golden Particle Delivery™ systems. Integrative and functional medicine just got a boost!

**WHAT MAKES A GOOD LIPOSOME?**

**Efficient Compound Delivery**

Liposomes are microscopic single- to multi-layer spheres made of phospholipids—the basic building blocks of cell membranes. PurXpressions™ engineers these phospholipids to encapsulate compounds, in order to bypass the digestive processes that normally degrade or limits compound absorption.

**Fast Absorption**

Our liposomes bring the power of intravenous therapy into convenient oral delivery. Unlike other liposomes on the market that use low grades of phospholipids (e.g. raw lecithin), which breakdown and do not deliver compounds effectively, the high-phosphatidylcholine phospholipid mixes of PurXpressions™ are smaller; more stable, and tightly distributed single-layer spheres (unilamellar vesicles). Our vesicles are small enough to begin absorption as soon as they hit your mouth, avoiding alteration by the harsh digestive processes.

**Particle Size**

Most nutraceutical manufacturers typically use cheap shear methods resulting in large particles (200–600nm) that absorb poorly. Not PurXpressions™! Most of our particle systems fall in the same 50–100nm range that pharmaceutical companies target.

**Excellent Chemistry**

Well-engineered liposomes have demonstrated the ability to cross the blood-brain barrier; deposit their cargo intracellularly; and enhance lymphatic circulation of therapeutic compounds.

**Smart Ingredients**

The phospholipids that compose the liposome shell feed the cell membranes themselves. This promotes proper cellular function, like the absorption of nutrients and the excretion of cellular waste products and toxins.

**GLUTATHIONE**

Glutathione is the body’s premiere endogenous (internally produced) antioxidant and is integral to multiple bodily systems. It’s also the body’s main detoxification compound and is crucial to effective immune function, yet the body’s production of glutathione declines with age, stress, and disease states. Glutathione is poorly absorbed through the gastrointestinal tract, and our Etheric Delivery™ Liposomal Glutathione brings proven technology for trans-mucosal delivery of difficult-to-absorb compounds.

**METHYL B-COMPLEX**

This innovative formula contains B1 (thiamine hydrochloride), B2 (as riboflavin 5-phosphate), B3 (as equal mix of niacin and niacinamide), B5 (as calcium pantothenate), B6 (as pyrioxal 5-phosphate), B7 (biotin), B9 (as folic acid), B12 (as methylcobalamin), betaine anhydrous (trimethylglycine), and hydroethanolic extract of milk thistle. Nothing like this has ever been done!

Our liposomal B-Complex is the first of its kind to pack such a complex array of B-vitamin chemistry into a single, comprehensive product. Our use of folic acid along with activated forms of B2 and B6, methyl B12, and trimethylglycine provides all of the factors necessary for healthy methylation processes, without forcing methylation or creating “methyl traps.” Also novel to the industry, our use of milk thistle extract balances gall bladder/bile flow with the liver up-regulation brought about by B-vitamins.

**CoQ10**

No mitochondrial supplement has been researched more intensively than CoEnzyme Q10. Its positive effects on the clinical markers of cardiovascular health, normal blood sugar control, and gum health have made it popular in the dietary supplement industry. However, its gastrointestinal absorption is limited, and traditional liposomal encapsulation does not suit this compound. The innovative chemistries of Quicksilver Scientific have solved this problem, resulting in a CoQ product with power that you feel quickly and clearly.

**DIM**

Diindolylmethane is an incredibly promising agent that begs for better delivery, due to its poor gastrointestinal absorption. The published effects on hormonal balance, immune function, and detoxification—plus DIM’s ability to modulate epigenetic influences from mycotoxin exposure—make this one of the most exciting nutraceuticals available to integrative and functional medicine. Our Golden Particle Delivery™ system will help this compound live up to its great potential.

**VITAMIN C**

Vitamin C is the quintessential exogenous (diet-derived) antioxidant. Vitamin C absorption decreases with increasing dosage, so a liposomal delivery of Vitamin C offsets that loss and enables high-level dosing without intravenous therapy.

**CBD**

Our non-THC (<0.3%) Cannabidiol (CBD) from German hemp uses our cutting-edge liposomal delivery methods to increase absorption of this exceptional phytochemical compound. CBD helps with pain management and increases feelings of relaxation.

**BENEFIT KEY**

- **SUPPORTS HEALTHY ENERGY LEVELS**
- **SUPPORTS HEALTHY CARDIOVASCULAR FUNCTION**
- **SUPPORTS NORMAL NEUROLOGICAL FUNCTIONS**
- **SUPPORTS HEALTHY IMMUNE RESPONSE**
- **SUPPORTS NATURAL DETOXIFICATION PATHWAYS**
- **SUPPORTS HORMONAL FUNCTION**

**These statements have not been evaluated by the Food and Drug Administration. This product is not meant to diagnose, treat, prevent, or cure any disease.**
**IMD Protocols Pre Amalgam Removal and Revision Protection**

Until you get your amalgams removed, a basic regimen is:

- 1 scoop IMD M,W,F first thing in the morning, stirred into ~1g dissolved vitamin C
- 2 capsules Clear Way Cofactors, M,W,F 15-20 minutes after IMD and 15-20 min before breakfast

This will start to get your GI tract normalized and start to bring down your mercury levels. If you experience any symptoms that last more than 2 days (fatigue, GI upset, headaches), then back off to ~1/2 scoop IMD. Consider Kidney and Lymph drainage remedies (e.g. Soluna, MHP, Nestmann, Unda) during this period.

Other Considerations during this period:
- Multimineral supplements (there are many) taken according to manufacturer directions.
- Good quality probiotics, at least 10 billion CFU per day; continue this and intensify it after the amalgams are removed as that is the critical time to change the flora which has been controlled by the constant presence of the mercury
- Mild anti-yeast/fungal supplements are very important as yeast often dominates the flora when amalgam is present and must be removed for best healing. Caprylic acid and olive leaf extract are good for this and gentle. As with the probiotics, intensify use once amalgams are gone.

**For Amalgam Revision Period:**

- Get 6 bottles of Therasomal Nanosphere Vitamin C/R-Lipoic Acid.
- Take 3g per day (2 droppers 3X/day) for 7 days leading up to revision and 7 days trailing revision; with the C/R-LA, take 1 scoop IMD each of the 7 days before revision, 3 scoops day of, 2 day after, and 1 scoop the next three days after that.
- On the day of revision, if not doing a vit C IV, take one whole bottle 1 hour before the revision and one whole bottle 2-3 hours after the revision.

If this is the last of the amalgams, go to 5-on/2-off cycle with full detox, adding in Nanosphere Glutathione. If you still have amalgams, go back to the 3 scoops per week pre-revision schedule.
“Pre-Tox Protocols” – Preparing Sensitive Patients for Hg Detox

These protocols are directed at patients who are “sensitive” (react strongly to supplements or medications), show poor detox pathways in their Hg Tri-test, or who react negatively (severe fatigue, strong flu-like symptoms, or major exacerbation of symptomology) to initial detox with IMD or other detox agents. The purpose of the “Pretox” period (pre-detox) is to get the body’s elimination pathways running smoothly and get the extracellular matrix more fluid so as to pass the toxins out of the body without a strong “healing crisis”. The approach is based on first using either Spagyric Homeopathic or standard homeopathic drainage remedies and a homeopathic preparation of Quicksilver Scientific’s IMD to gently open the detoxification pathways (including extracellular matrix drainage) in the body, and then bringing in herbal preparations to start building cellular detoxification enzyme systems. Quinton Marine Plasma is a strong addition to repair the extracellular matrix (termed “the terrain” in older literature). This is a prelude to the main detoxification with IMD.

Supplements for use with PreTox protocols:

1) **Soluna Renalin Spagyric Homeopathic** – this is a European product that gently yet deeply increases kidney function (*other kidney drainage homeopathics can be substituted*)
2) **Soluna Lymphatik Spagyric Homeopathic** – this is a European product that helps move lymph and cleanses blood and lymph (*other lymphatic drainage homeopathics can be substituted*)
3) **Soluna Hepatik Spagyric Homeopathic** – this is a European product that gently yet deeply increases hepatic function (*other liver drainage homeopathics can be substituted*)
4) **Ayush Herbs Rentone** - an Ayurvedic formula from a well respected producer or organic Ayurvedic Herbs; powerfully changes kidney function and rapidly changes stubborn urine:blood ratios
5) **Quick silver Scientific IMD 30X** – a 30X potentized homeopathic dilution of IMD; used orally, but also may be sprayed directly on skin over kidney
6) **Quick silver Scientific Therasomal Vitamin C/R-Lipoic acid** - this nanosphere lipid delivery system product works against oxidative stress and the R-Lipoic Acid chelates inorganic mercury and removes it through the liver and gall bladder instead of the kidney, taking some of the mercury load off of the kidney
7) **Quick silver Scientific Therasomal Glutathione** - this nanosphere lipid delivery system product allows bioavailability of the body’s central antioxidant, glutathione. Indicated during the pretox period for patients with high oxidative stress or inflammation
8) **Quick silver Scientific Clear Way Cofactors** – a broad-spectrum phytonutrient antioxidant formula with strong anti-inflammatory properties. This formula gets the body’s detoxification enzymes working more strongly, helps both liver and kidney processes, and protects the vascular system and nervous system
9) **Original Quinton Isotonic Marine Plasma** – this French seawater product has been used since before the turn of the century to clear and heal the extracellular matrix, lower inflammation, increase parasympathetic tone in the autonomic nervous system, and increase output of the kidney
QS General Pre-Tox Protocol:

This protocol is for lighter stimulation of kidney function either before or during main detox with IMD. **Products:** Soluna Renalin, Soluna Lymphatik, QS IMD 30X, and Original Quinton Isotonic. A 4 week protocol (may be longer).

- Soluna Renalin (10 drops), Soluna Lymphatik (10 drops), Soluna Hepatik (10 drops) and Quicksilver Scientific IMD 30X (1 dropper), each spaced 2-5 min apart and taken 3X per day if in preparation for detox or 2X per day if used during the detox. Use for entire period and can continue into main detox period for as long as desired
- Starting week 3, add 1 capsule Clear Way Cofactors per day. Jump to 2 capsules starting week 4
- Addition of 2 ampoules of Original Quinton Isotonic Marine Plasma daily on empty stomach will enhance kidney output
- Optional: Use Soluna Hepatik 10-15 minutes after meals to improve bile flow and digestion

**QS Kidney Focus Protocol:**

This protocol is for more advanced kidney dysfunction and is used before full detox with IMD or with small doses of IMD (30-50 mg/day). Use this is the urine: blood ratio is low on the QS Tri-test or if kidney symptoms are present (e.g. edema). **Products:** Soluna Renalin, Soluna Lymphatik, QS IMD 30X, Ayush Herbs Rentone, and Original Quinton Isotonic.

- Soluna Renalin (10 drops), Soluna Lymphatik (10 drops), and Quicksilver Scientific IMD 30X (1 dropper), each spaced 2-5 min apart and taken 3X per day if in preparation for detox or 2X per day if used during the detox
- Starting week 3, Ayush Herbs Rentone 1-3 caps per day with or without food; you often have to work up from one per day over one to two weeks.
- Use protocol for 4-6 weeks before full detox
- Addition of 2 ampoules of Original Quinton Isotonic Marine Plasma daily on empty stomach will enhance kidney output
- Use of Quicksilver Scientific’s Therasomal Vitamin C/R-Lipoic Acid during the detox phase – 1 dropper full 2-4 times per day – will redirect some of the mobilized mercury from the kidneys through the liver/gall bladder to the intestines
Quicksilver Clear Way Detoxification System™

Quicksilver’s Clear Way Detoxification System is a comprehensive program for metal detoxification. The system restores and amplifies the body’s natural detoxification system (the glutathione system) to safely remove metals and other toxins from the body, primarily through the intestines. The system has three main components: 1) IMD – Intestinal Cleanse and its homeopathic dosage, 2) Clear Way Cofactor phytonutrient antioxidant blend, and 3) Lipid-Encapsulated therapeutic compounds. The dosages of the components, especially the dosage of IMD, can be used to modulate the speed of the detoxification.

1. Detoxification System Components

IMD – Intestinal Cleanse:
1) IMD – Intestinal Cleanse
2) IMD 30X Homeopathic
3) Quinton Marine Plasma – Isotonic

Phytonutrient Antioxidant Blend:
1) Clear Way Cofactor

Lipid Encapsulated Nanosphere Therapeutic Compounds:
1) Etheric Delivery Vitamin C R-Lipoic Acid
2) Etheric Delivery Glutathione
3) Etheric Delivery EDTA with R-LA

Additional Optional Support may include:
1) Quinton Marine Plasma – Hypertonic
2) Multimineral Supplements (e.g. Zinc, Magnesium, Manganese)
3) Homeopathic drainage remedies for kidney, liver, or lymph
4) Probiotics and Prebiotics
5) Essential Fatty Acids (4:1 DHA/EPA, Green Lipped Mussel Oil, pumpkin oil, 3-6-9 blends)
6) Adaptogenic Tonic Herbs (e.g. Ashwaganda, Ginseng, Rhodiola)

The system works in cycles of use and then rest. The use periods provoke drainage from the body, which uses the body’s resources for detoxification. The rest periods allow redistribution of resources.

IMD – Product Overview:

The IMD Intestinal Cleanse is a proprietary product that consists of highly purified silica with covalently attached metal-binding groups. The product is insoluble and functions to bind heavy metals in the gut (both ingested metals and metals excreted by the body with the bile) so that they can be safely eliminated with the bowels; this prevents both absorption of the heavy metals and free-radical generation catalyzed by them. In fact, the product can also directly neutralize free-radicals in the gut and thus may play a role in damping gastrointestinal inflammation. Both the silica base and the binding agent are GRAS (generally recognized as safe) for use in food, but since the binding agent is firmly attached to the insoluble silica, it is not absorbed and thus not bioavailable. The product contains no known allergens and no allergic reactions have been reported to date.

IMD 30X Homeopathic – Product Overview

IMD 30X is a homeopathic dilution of IMD, where “30X” is a 10-fold dilution done thirty times with succussing between dilutions. The effects of this product are more subtle and it acts to gently align the bodies systems toward the goal of detoxification. This product is best mixed with Quinton Isotonic Marine Plasma. For very
sensitive patients, clinician may elect to have patient use Quinton Isotonic with IMD 30X for periods up to 2 months before going to the silica IMD.

**Clear Way Cofactor Mix – Product Overview**

The **Clear Way Cleanse Cofactor Mix** is a proprietary blend of whole-food and phytoextracted polyphenolics, R-Alpha Lipoic Acid (RALA), and targeted vitamins (B1, B5, and B6) designed to maximize metal detoxification pathways. The polyphenolics and RALA have been shown to upregulate the detoxification systems of the body, especially the glutathione system. The glutathione system contains multiple molecules and enzymes that function to quench oxidative stress, repair damaged proteins, and detoxify and remove endogenous (internally created) and exogenous (externally acquired) toxins. The only way to truly increase the functioning of the system is to stimulate the production of the system components from within the cells. Polyphenolic antioxidants, such as epicatechin found in pine bark extract and green tea extract, have shown tremendous efficacy in doing this, creating both anti-inflammatory and anti-carcinogenic activity and passing through the blood-brain barrier. This formula also provides 200mg selenomethionine, organic iodine and 20mg of Lumbrokinase, a powerful fibrinolytic enzyme that degrades intestinal biofilms and bolsters circulation.

**Lipid-Encapsulated Therapeutic Compounds: Vitamin C/ALA/R-LA, Glutathione (GSH), EDTA/R-LA**

Liposomes and lipid nanospheres, phospholipid spheres that house guest molecules, are delivery systems for compounds that are hard to absorb or are altered in the intestines. Nanoliposomes (similar to conventional liposomes but smaller and thus better absorbed) are passively absorbed in the oral mucosa and small intestine and thus can bypass many intestinal absorption barriers. Due to the intestinal disassembly of glutathione by gamma glutamyl transferase, for example, oral supplementation of raw glutathione is nearly useless. Nanosphere GSH, however, is an ideal way to deliver this important supplement. Though the rest of the Clear Way System will support healthy glutathione levels, adding substrate for the GSH detoxification system to use can enhance the flushing of toxins out of the body. Vitamin C, R-lipoic acid, and EDTA can also be effectively delivered by lipid encapsulation with improved absorption over conventional oral dosing.

In addition to their unique delivery mechanism, the phospholipids encapsulating the therapeutic agents are the fundamental building blocks of cell membranes. The supplemental phospholipids can improve fluidity of the membranes, enhancing both uptake of nutrients by and excretion of wastes from the cells. We at Quicksilver have been searching for many years for the best technologies for phospholipid delivery systems. The result of our constant search for the best phospholipid delivery systems is our newly-developed proprietary **Etheric Delivery System**. **Etheric Delivery Glutathione**, **Etheric Delivery Vitamin C + R-Lipoic Acid**, and **Etheric Delivery EDTA + R-Lipoic Acid** are made with 1,2 dilidino phosphatidylcholine (identical molecular structure to the injectable-grade “Lipostabil”).

**Quinton Marine Plasma**

Quinton Marine Plasma is a natural marine solution that has 100 years of clinical evidence supporting its therapeutic and health regenerating properties. Since 1897 Quinton Marine Plasma has been harvested from a unique vortex plankton bloom in the Atlantic Ocean. Here, biological activity known as Bicenosis - a complex interaction among the all minerals and trace elements, organic matter, microbes, RNA, DNA, phytoplankton and zooplankton – is at its peak. Raw seawater from this location exhibits special biochemical and energetic properties that are distinct from the surrounding ocean.
After extraction from a depth of 30 meters, the solution is transported at 4°C in sterile containers to Laboratoires Quinton, a certified pharmaceutical facility in Spain. Minimal processing, cold-sterilization and packaging in double-tip glass ampoules are the hallmark of this unique product. Heat sterilization and radiation are never used so that its “living” quality and efficacy are preserved 100%.

Quinton Marine Plasma comes in an Isotonic (same salinity as the human body) and Hypertonic (the natural salinity of seawater) formulation. These formulas are extremely beneficial during detoxification. The Isotonic strongly supports parasympathetic nervous system tone allowing for efficient drainage of mercury from the tissues during the detox days (“on” days), while the Hypertonic is tonifying to the sympathetic nervous system, strengthening and remineralizing the body during the days “off”.

2. Dosing

**IMD:** Add 1-2 scoops IMD to a soluble Vitamin C solution or preferably a Liposomal Vitamin C (1 tsp or 1000mg C or more per patient needs) 1-2 times per day as directed by health care professional. Stir to create a suspension and drink quickly before IMD settles. Preferably taken on an empty stomach; take with small amount of food if stomach upset occurs. If there is sensitivity to Vitamin C, a squeeze of lemon juice can be used.

**IMD 30X:** Take one dropper full (10-15 drops) under the tongue 2 or 3 times per day. Do not take within 10 minutes of food or drink. Avoid strong foods and drink (coffee, garlic, alcohol). It is often used by very sensitive patients or those with multiple chemical sensitivities a month or more before starting IMD. For most patients, it is used for a period of 2-7 days prior to starting IMD and Cofactor Mix, and then taken once a day (usually right before bed) during the “off” periods. Best taken in Quinton Isotonic.

**Clear Way Cofactor Mix:** Start with 1-2 caps per day and work up to 3 per day or more as IMD use increases (see examples below). Caps can be taken with meals and may be divided into 1-3 per meal when taking larger amounts. Take during “on” periods, preferably on an empty stomach to get the most biofilm elimination activity from the Lumbrokinase.

**Nanosphere/Phospholipid Solutions:** Phospholipids should be taken at least 20 minutes before meals to allow full assimilation. If all forms of liposomes are used you can take more than one kind at a time (e.g. Etheric Vit. C/R-LA plus Etheric GSH plus Etheric EDTA/R-LA); the only rule is that IMD is best with only the Etheric C/R-LA. If you wish to take Etheric GSH or EDTA in the same period of the day as the IMD, wait 30 minutes after taking IMD to take the GSH and/or EDTA.

**Additional Support:** During the detoxification, it is very beneficial to ensure proper digestive flora with probiotics and prebiotics, to remineralize with balanced mineral blends, and to provide lots of essential fatty acids. The most important mineral needs are Magnesium (400mg or more per day), Zinc (15-50 mg/day), and Selenium (100-400 mcg per day). There are numerous products that can be used for these tasks; Pure Encapsulations Mineral 650 is a suitable product for rebuilding nutrient minerals. Quinton Hypertonic is a broad spectrum micromineral supplement, including the hard-to-find rare-earth elements. Minerals should be heavily emphasized on days “off”. When EDTA is used, remineralizing formulas are even more important, especially zinc and magnesium.

Make sure that the patient moves their bowels 1-2 times per day; use magnesium (such as magnesium ascorbate or magnesium citrate), supplemental fiber, and natural laxatives if needed. During the days “off”, an Adaptogenic tonic herbal like Ashwaganda along with increased mineral supplementation is useful to strengthen the system before the next round of drainage.

**Pre-Tox Program:** Spagyric or Homeopathic drainage remedies are very effective for preparing the drainage pathways for the detoxification program. The most commonly used ones are Kidney, Lymph, and Liver drainage remedies. The program is most effective if these remedies are used with IMD 30X for 3-4 weeks or even more before the full IMD detox protocol. Add in 1-2 caps/day Clear Way Cofactors for the last two weeks of the “Pre-Tox”.
3.0 Scheduling

Dosing cycles have periods of time “on” and “off”. The typical ratio of on/off is 5/2. The simplest form of this is 5 days on and 2 days off, repeated every week. Multiples of this cycle, 10-on/4-off or 20-on/8-off, can also be used. The longer the “on” period, the deeper the detox, but also the more likely one is to suffer some fatigue or other symptoms. So 5/2 is the most gentle and 20/8 the most intense, with 10/4 being intermediate. We recommend always going to 10/4 in the highest dosing stage (“Month 3” in the below example. The dosing levels increase with time as can be comfortably handled by the patient; if detox symptoms (fatigue, headaches, digestive problems) are too strong, back off on doses of the IMD (the main control on detox rate). Below is an example of a 5/2 and a 10/4 dosing schedule for a three month period. It is important to respond to the individuals needs with dosing and do only what they can handle. Complete detoxification may take up to a year or more.

5 Days On - 2 Days Off:

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<tr>
<td>IMD30X</td>
<td>IMD - 1 scoop per day in Etheric Vit C/RLA</td>
<td>Ashwaganda or other Adaptogens</td>
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<td>Mineral 650 2 caps</td>
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<td>Ashwaganda or other Adaptogens</td>
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<td>Eth GSH 600mg/day; NanoEDTA 1 tsp 3X/week</td>
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<td>Clear Way Cofactors - 6-10 caps/day</td>
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<td>Eth GSH 1000mg/day; NanoEDTA 1 tsp 3-5X/week</td>
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<td>Mineral 650-6 caps</td>
<td>Mineral 650 2 caps; 4 caps if using EDTA</td>
<td>Mineral 650-6 caps</td>
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<td></td>
<td>Quinton Isotonic 1-2/day</td>
<td>Quinton Hypertonic</td>
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It is important to respond to the individuals needs with dosing and do only what they can handle. Complete detoxification may take up to a year or more.
### 10 Days On - 4 Days Off:

#### Month 1

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<thead>
<tr>
<th>Day 1</th>
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<tbody>
<tr>
<td>IMD30X 3times/day w/Quinton Isotonic</td>
<td>IMD - 1-2 scoops per day in Etheric Vit C/RLA</td>
<td>Clear Way Cofactors - 2-3 caps/day</td>
<td>Etheric GSH - 200mg/day</td>
<td>Mineral 650 2 caps</td>
<td>Quinton Isotonic 1-2/day</td>
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<tr>
<td>Ashwaganda or other Adaptogens</td>
<td>IMD - 1-2 scoops per day in Etheric Vit C/RLA</td>
<td>Clear Way Cofactors - 3 caps/day</td>
<td>Etheric GSH - 200mg/day</td>
<td>Mineral 650 2 caps</td>
<td>Quinton Isotonic 1-2/day</td>
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<td>Mineral 650-6 caps</td>
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<td>Quinton Hypertonic</td>
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#### Month 2

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<tbody>
<tr>
<td>Ashwaganda or other Adaptogens</td>
<td>IMD 1-3 scoops per day in Etheric Vit C/RLA or with EDTA</td>
<td>Clear Way Cofactors - 3-6 caps/day</td>
<td>Etheric GSH 800mg/day; Nano EDTA 1tsp every other day</td>
<td>Mineral 650 2 caps; 4 caps if using EDTA</td>
<td>Quinton Isotonic 1-2/day</td>
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<td>Mineral 650-6 caps</td>
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#### Month 3

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</thead>
<tbody>
<tr>
<td>Ashwaganda or other Adaptogens</td>
<td>IMD 2-4 scoops per day in Etheric Vit C/RLA</td>
<td>Clear Way Cofactor Mix - 6-10 caps/day</td>
<td>Etheric GSH 1000mg/day; Nano EDTA 1tsp 3-5X/week</td>
<td>Mineral 650 2 caps; 4 caps if using EDTA</td>
<td>Quinton Isotonic 1-2/day</td>
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<td>Quinton Hypertonic</td>
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### 4.0 Next Steps:

After three months of this program, **take at least 2 weeks to just remineralize and strengthen the body** with the Mineral 650, Quinton Hypertonic, and Ashwaganda or other adaptogenic herbs. Then do another three-month protocol. If the patient had to keep low dosages through the first three months, go to higher doses in the next three months. If the patient was able to take the high end of doses indicated here and did not have too high of a load, stay on the Month 1 regimen and cut back on some of the liposomal products and stop the EDTA. If the patient had a very large metal load, repeat the full protocol. A subsequent long, lower-intensity phase is essential for getting deep, long-lasting detoxification, whereas the first three month intense phase retrains the detox system and pulls the worst loads out. Some people who are very sensitive and/or have high toxic burdens need to move much more slowly through the program starting off with fractional doses (i.e. 1/3 or 1/2 scoop of IMD per day) and working slowly up. **It is important to allow the process to take the time it needs so as not to “retoxify” the patient with too rapid of a drain instead of “detoxifying” them with a safe and controlled drain rate. A strong “detox reaction” in usually an indication that more “Pre-Tox” time needs to be spent with homeopathic or spagyric drainage remedies and IMD 30X before full IMD usage.**
QS Liver Focus Protocol:

This protocol is for augmenting liver function either before or during main detox with IMD. Use this when hair: blood ratio is low in QS tri-test or when liver symptoms are present. **Products:** Soluna Hepatik, Soluna Lymphatik, QS IMD 30X, QS Clear Way Cofactors, QS Therasomal Glutathione. A 4 week protocol (may be longer).

- Soluna Hepatik (15 drops), Soluna Lymphatik (10 drops), and Quicksilver Scientific IMD 30X (1 dropper), each spaced 2-5 min apart and taken 3X per day if in preparation for detox or 2X per day if used during the detox
- 1 capsules Clear Way Cofactors in morning for 2 weeks, then up to 1 cap in morning and 1 in evening, best empty stomach, but may be taken with food
- QS Therasomal Glutathione – 100 mg (1 pump) morning and evening, on empty stomach; separate from Clear Way by 15-20 minutes if taking together

QS GI Tract Focus Protocol:

This protocol is patients with GI problems. The IMD will typically help GI problems, but if is best to start getting them under control before going to the IMD. These treatments are additions to any of the above Pre-Tox protocols and the elements are flexible in dosage and substitution.

- Triphala (Ayurvedic GI formula and general cleanser) – 3 or more caps per day
- L-glutamine (1-3 g/day) and Ca,Mg-butyrate (1-4 g/day)
- 10-100 billion CFU of good probiotic, such as Pharmax HLC
- Caprylic acid or, better yet, undecanoic acid for Candida suppression; this should be continued when starting IMD
- Find and eliminate major food allergies, especially wheat and dairy, which are good to automatically exclude for GI problem patients
- Any suspected parasites should be addressed at this point as well
- Other options: bentonite clay, psyllium, licorice root, slippery elm bark, marshmallow root; also there are many adequate powder mixes for intestinal health and cleansing, which may simplify this aspect of the protocol
**ARTEMISININ**

**Quicksilver Scientific Etheric Delivery™ Phospholipid Encapsulation System, 4.0 oz. (120ml)**

*Artemisinin* is an active constituent of the plant *Artemisia annua*, or sweet wormwood. Artemisinin and its derivatives are powerful medicines known for their ability to swiftly reduce the number of *Plasmodium* parasites in the blood of patients with malaria. (1) Research has also shown artemisinin to be beneficial in balancing the microbiology of the GI tract, and has long historical use as an agent used to eradicate gastrointestinal parasites. Artemisinin’s reported pharmacological activities include cytotoxicity against some cancer cells, and antibacterial and antifungal activity. (2) Artemisia is commonly used in treatment of babesia and Lyme disease.

### SUPPLEMENT FACTS

<table>
<thead>
<tr>
<th>Serving Size: 5 mL (1 tsp)</th>
<th>Amount</th>
<th>% Daily</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Servings per container: 5 mL (1 tsp)</td>
<td>Per Serving</td>
<td>Value</td>
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</table>

| Artemisinin | 40 mg * |
| Phosphatidyl choline From Purified Soy Lecithin | 450 mg * |

*Daily Value not established

**Other Ingredients:** Glycerin, Water, Ethanol, Phospholipids

**Quicksilver’s Etheric Delivery™ Phospholipid Encapsulation System** brings the power of intravenous therapy into a convenient oral delivery. Our Etheric Delivery™ improves upon liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, nanospheres like Quicksilver produces have demonstrated the ability to deposit their cargo intracellularly and enhance lymphatic circulation of nutrients. Also, the phospholipids that compose the liposome shell feed the cell membranes. This ensures the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

**Production Technology Features:**

- Easy to disperse in water/juice when desired
- Developed in an oral vehicle to support absorption of this poorly soluble compound

**General Suggested Usage:**

Use 1 tsp (5ml) 1 to 3 times per day as directed by your health practitioner. Best used in a cycle of 10 days on, and 4 days off. It is advisable to monitor liver function enzymes (LFT’s) during usage. May be taken directly by mouth or mixed into water or juice (Grapefruit juice is best). Store refrigerated and use within 60 days of opening

**References:**


CLEARWAY COFACTORs

Clear Way Cofactors is a proprietary blend of phytoextracted polyphenolic antioxidants, R-Lipoic Acid (RLA), targeted vitamins (B1, B5, B6), selenium, kelp extract and high-potency Nattokinase designed to maximize metal detoxification pathways. The polyphenolics and R-LA have demonstrated the ability to upregulate the detoxification systems of the body, especially the glutathione system1-4. The glutathione system contains multiple molecules and enzymes that function to quench oxidative stress, repair damaged proteins and detoxify/remove endogenous (internally created) and exogenous (externally acquired) toxins.

The only way to truly optimize the function of the glutathione system is to stimulate the production of the system components from within the cells. Polyphenolic antioxidants such as Epicatechin (found in pine bark and green tea extracts), have demonstrated tremendous efficacy in doing this by “turning on” a cellular master switch called the Nrf2 protein. This protein turns on the cellular production of several antioxidants and detoxification molecules.1 Polyphenols have the added benefits of high anti-inflammatory properties, anticarcinogenic activity and passage through the blood-brain barrier.

Clear Way Cofactors feature a potent proprietary blend of highly concentrated extracts of:

- **Haritaki** is the polyphenolic-rich fruit of the *Terminalia Chebula* tree. Haritaki is widely used in Ayurvedic medicine where it is held sacred to Shiva. It is pictured as the quintessential healing plant in depictions of the Medicine Buddha in Tibet, where Haritaki is called “The King of Herbs.” Haritaki was recently shown to have extraordinary effects on the antioxidant and detoxification systems.2
- **Pine Bark Extract** is the richest source of epicatechins (the building block of OPC’s – oligomeric proanthocyanidins) and powerful anti-inflammatory, cardioprotective glutathione builders.3
- **Pomegranate Extract**, a rich source of ellagic acid, which has shown impressive activity on glutathione synthesis and glutathione S-transferase activity.4
- **Gotu Kola and Bacopa Extract** is added for nerve detoxification, protection and stabilization.
- **Dandelion Extract** is added for liver protection and to stimulate adequate bile and urinary flow.
- **Kelp Extract** is added for iodine/other trace minerals and polyphenolic content.

**Nattokinase and Biofilms:** In addition to the comprehensive cellular protection delivered by the antioxidant components of the formula, high-potency Nattokinase (2000fu) is included to help break down biofilms in the gut. These biofilms prevent detoxification and absorption of nutrients as well as lock in dysbiotic intestinal flora. Additionally, Nattokinase has the unique quality of possessing strong anticoagulative properties without the risk of uncontrolled bleeding. For safety, DO NOT give this supplement to patients with (anti)coagulation or hemolytic conditions.

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PurXpressions DIM

Quicksilver Scientific Etheric Delivery™ Phospholipid Encapsulation System,
1.7 fl. oz. (50mL), Pump-top

DIM (Diindolylmethane) 3,3’-Diindolylmethane or DIM is an incredibly promising compound derived from indole-3-carbinol found in cruciferous vegetables such as broccoli, brussels sprouts, cabbage and kale.(1) DIM has been shown to possess anticancer effects and is currently being investigated in many clinical trials, including prostate, breast and cervical cancers.(2,3,4) Published effects on hormonal balance, immune function and detoxification—plus DIM’s ability to modulate epigenetic influences from mycotoxins and exposure to infectious pathogens—make DIM one of the most exciting nutraceuticals available to functional medicine.(1,2,3,4) Though promising, DIM has poor oral absorption in pill-, tablet- and powder-type supplements. Quicksilver Scientific has taken the power of DIM to a new level through liposomal encapsulation, allowing for greatly enhanced oral absorption and delivery. Many clinicians have patients with chronic inflammation, depressed detoxification and “immunotoxic” reactions to foods and supplements. Try PurXpressions liposomal DIM in patients suffering from these exaggerated TH2 (pro-oxidant) responses, and see how it can improve symptoms!

Quicksilver’s Etheric Delivery™ Phospholipid Encapsulation System brings the power of intravenous therapy into a convenient oral delivery. Our Etheric Delivery™ improves upon liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, nanospheres like the ones produced by Quicksilver Scientific have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly and enhance lymphatic circulation of nutrients. Also, the phospholipids that compose the liposome shell feed the cell membranes; this helps ensure the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

Production Technology Features:
• Tightly controlled small sizing, verified by Laser Dynamic Light Scattering on each batch (DIM mean size: 15–20nm)
• Pleasant taste, suitable for intrabuccal delivery
• Precise pump delivery
• Easy to disperse in water when desired
• Introral delivery for best systemic availability
• Easy to dispense and take directly from bottle

General Suggested Usage: Take 2-4 pumps at a time by mouth twice daily. Hold 30 seconds or more and swallow. May be stirred into a small amount of water. Best taken on an empty stomach. Once opened, use within 60 days. Store at room temperature, away from light.

<table>
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<tr>
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<tbody>
<tr>
<td>Serving Size: 2ml (4 pumps)</td>
</tr>
<tr>
<td>Servings per container: 25</td>
</tr>
<tr>
<td>Diindolylmethane</td>
</tr>
<tr>
<td>Phospholipids</td>
</tr>
<tr>
<td>(from purified sunflower seed lecithin)</td>
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<td>* Daily Value not established</td>
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Other Ingredients: Water; Glycerin; Ethanol; Medium-Chain Triglycerides; Vitamin E (as d-alpha tocopheryl polyethylene glycol 1000 succinate and as natural mixed tocopherols).

References:
2. Epigenetic Modifications of Nrf2 by 3,3-diindolylmethane In Vitro in TRAMP C1 Cell Line and In Vivo TRAMP Prostate Tumors 2000;64(2):287-293.
EDTA with R-Lipoic Acid
QuickSilver Scientific Etheric Delivery™ Phospholipid Encapsulation System
4-oz. PET Bottle

QuickSilver’s Etheric Delivery™ Phospholipid Encapsulation System brings the power of intravenous therapy into a convenient oral delivery. The absorption of conventional oral EDTA is only ~5% Nanosphere delivery greatly increases absorption and for some compounds can provide higher intracellular delivery than an IV can!

QuickSilver’s Etheric Delivery™ Phospholipid Encapsulation System improves upon liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, the nanospheres that QuickSilver produces have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly and enhance lymphatic circulation of nutrients. Additionally, the phospholipids that compose the liposome shell feed the cell membranes. This ensures the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

QuickSilver Scientific’s Etheric Delivery™ EDTA w/ Sodium R-Lipoic Acid is the most absorbable form of oral EDTA. EDTA has broad metals detoxification ability, being especially for lead and R-Lipoic acid (as sodium R-Lipoate) has an exceptionally well-documented ability to upregulate the glutathione system via the Nrf2 nuclear transcription pathway. Combined this EDTA/R-Lipoate with Etheric Delivery Glutathione and IMD, and you have an incredible, completely-oral broad-spectrum metal detoxification system that not only eliminates the dependence on IV’s, but repairs the underlying problem in the detoxification system that led to metals accumulation in the first place. Increased lead excretion is comparable to IV and continues for several days after a single bolus dose.

Production Technology Features:

- Tightly controlled small sizing, verified by Laser Dynamic Light Scattering on each batch.
- Mean size 50-100nm
- Flavor suitable for intra-buccal delivery, or easy water-dispersability when desired

General Suggested Usage: For general metal detoxification, take 1 tsp (210 mg EDTA and 33 mg of R-Lipoate) of product daily either straight by mouth or diluted into water. Alternately, it can be taken as a 5-tsp dose (1050mg EDTA and 165mg R-Lipoate) 1-2X per week. Be sure to use adequate mineral supplementation, especially zinc, when using this product.

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<tr>
<td><strong>% Daily Value</strong></td>
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<td><strong>Other Ingredients:</strong></td>
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</table>

* Daily Value not established

Urinary Pb response to 1.5g EDTA from Etheric Delivery EDTA/R-Lipoic Acid

Serving Size: 1 tsp (5 mL) Amount % Daily
Serving per container: 24 Per Serving Value
Sodium 68 mg 2.8
EDTA (Disodium EDTA) 210 mg *
R-Lipoic Acid 33 mg *
Phosphatidyl Choline 450 mg *
(Soy Lecithin - 65% linoleic acid)

* Daily Value not established

Other Ingredients: Water, Glycerin, Ethanol, sodium hydroxide
**GABA with L-Theanine**

**Quicksilver Scientific Etheric Delivery™ Phospholipid Encapsulation System, 1.7 oz (50ml), Pump-top**

**GABA** (gamma-aminobutyric acid) is an amino acid produced in the human body that functions as the principle inhibitory neurotransmitter in the central nervous system. (1) GABA is associated with the parasympathetic side of the autonomic nervous system which balances the sympathetic (fight-or-flight) side. Many pharmacological agents exert anxiolytic, analgesic, anticonvulsant and sedative effects by modulating GABA receptor activity, or blocking the reuptake of GABA, thus increasing GABA activity. (2,3) Many toxins, such as mercury, and some physical traumas, such as head trauma, elicit neurotoxic effects though glutamate receptors in the brain (called NMDA-mediated neurotoxicity). This produces a feedback loop of inflammation, neurotoxicity, and anxiety. GABA supplementation can help break that loop by building the pool of GABA. Use of powdered GABA is not efficient because it is poorly absorbed and does not easily cross the blood-brain barrier. Studies have shown that GABA administered with phosphatidylserine improved GABA’s activity and was proposed to be due to an increased ability to cross the blood-brain barrier. (4,5)Quicksilver Scientific’s Etheric Delivery GABA produces a very quick and powerful effect. Try this “Busy-ness” antidote once and you will know!

**L-Theanine** is an amino acid found naturally in tea. Research suggests that theanine affects inhibitory neurotransmission (parasympathetic) and has been shown to have relaxing effects on cognitive thinking and blood pressure. (6,7,8)

**Quicksilver’s Etheric Delivery™ Phospholipid Encapsulation System** brings the power of intravenous therapy into a convenient oral delivery. Our Etheric Delivery™ improves upon liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, nanospheres like Quicksilver produces have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly and enhance lymphatic circulation of nutrients. Also, the phospholipids that compose the liposome shell feed the cell membranes. This ensures the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

**Production Technology Features:**
- Tightly controlled small sizing, verified by Laser Dynamic Light Scattering on each batch (GABA mean size 50-100nm)
- Pleasant taste, suitable for intra-buccal delivery.
- Precise pump delivery
- Easy to disperse in water when desired
- Intraoral delivery for best systemic availability
- Easy to dispense and take directly from bottle

**General Suggested Usage:** Take 4 pumps whenever needed, especially before bed. Take 2 pumps at a time directly by mouth, hold 30 seconds and then swallow. GABA has also shown useful before taking detoxification products to dampen negative responses.

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<thead>
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<tbody>
<tr>
<td>2 mL (4 pumps)</td>
<td>250mg</td>
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<tr>
<td>Per Serving</td>
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<tr>
<td>GABA (Gamma amino butyric acid)</td>
<td>250mg</td>
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<tr>
<td>L-Theanine</td>
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<tr>
<td>Essential Phospholipids</td>
<td>200 mg</td>
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<td>(Sunflower Lecithin)</td>
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</table>

* Daily Value not established

Other Ingredients: Water, Glycerin, Ethanol, Vitamin E (as d-alpha tocopherol polyethylene glycol 1000 succinate)

**References:**
GLUTATHIONE

Quick silver Scientific Etheric Delivery™ Phospholipid Encapsulation System With Sunflower-Derived Phospholipids - 1.7 oz, Precision Pump-top

Quick silver’s Etheric Delivery™ Phospholipid Encapsulation System brings the power of intravenous therapy into a convenient oral delivery. Our Etheric Delivery™ improves upon liposomal technology with smaller, more stable, single-layer spheres made from the highest-grade ingredients available. In addition to exceptional absorption rates, nanospheres like Quick silver’s have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly and enter lymphatic circulation. Additionally, the phospholipids that compose the liposome shell feed the cell membranes. This ensures the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

Glutathione is the master detoxifier and the body’s main antioxidant. Toxins are linked to glutathione, which then carries them into the bile and the stool, and out of your body. It protects our cells delicate chemical machinery, helps our energy metabolism run efficiently. Glutathione is also integral to our immune system, especially for resistance to viruses. Typical oral delivery of glutathione is greatly inhibited by breakdown in the stomach.

Quick silver’s Phospholipid Encapsulation Etheric Delivery™ protects the glutathione from digestive enzymes that otherwise prevent absorption of oral glutathione supplementation and in cell cultures has demonstrated over 100 times more efficiency for intracellular delivery than IV-based glutathione.

Quick silver Scientific Etheric Delivery™ Glutathione comes with a precision pump to accurately deliver 50 mg of reduced glutathione and 68 mg of injectable-grade essential phospholipids per pump. The patent-pending process plus our natural lemon flavoring allows this product to be taken intra-orally for maximum absorption without the foul sulfur taste typical with liposomal glutathione products. Product can be dosed every 3-4 hours for even delivery throughout the day. Each bottle delivers 100, 0.5-ml doses.

Production Technology Features:

- Tightly controlled small sizing, verified by Laser Dynamic Light Scattering on each batch
  o Glutathione means size 100-130nm
- Flavored with essential oils, giving pleasant citrus taste, suitable for intra-buccal delivery
- Precise Pump Delivery
- Easy Water Dispersability when desired

Benefits:

- Intraoral delivery for best systemic availability
- Easy to dispense and take directly from bottle
- Excellent for topical use: for application to cold sores or other viral lesions.

SUPPLEMENT FACTS

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<th>Amount</th>
<th>% Daily Value</th>
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<tr>
<td>Sodium</td>
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</tr>
<tr>
<td>Reduced Glutathione</td>
<td>100 mg</td>
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</tr>
<tr>
<td>Essential Phospholipids</td>
<td>120 mg</td>
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</table>

(From purified Sunflower lecithin)

* Daily Value not established

Other Ingredients: Water, glycerine, ethanol, Vitamin E (as d-alpha tocopheryl polyethylene glycol succinate 1000), essential oils

Suggested Usage: For general antioxidant and detoxification protection use 8 pumps per day (400mg Glutathione). For advanced protection, use up to 20 per day (1000mg Glutathione) or more, in divided doses through the day. For large doses, take 2 pumps at a time to allow for maximum oral absorption and hold at least 30 seconds before swallowing. Children should start at ~1/4 of adult (2 pumps per day) dosage and work up.
IMD Intestinal Cleanse

Quicksilver Scientific’s sophisticated detoxification supplement that optimizes the natural removal of metals through the intestines. This proprietary compound, IMD Intestinal Cleanse, supplements the natural action of glutathione in the intestines. IMD delivers insoluble thiol groups to bind and remove heavy metals accumulated in the intestines and to directly quench free-radicals.

IMD’s actions enhance Phase III Detoxification – the system of transporters leading out of the body.

• **Binds mercury and other heavy metals** in the intestines and escorts these harmful contaminants out of the body.
• **Intercepts methylmercury and other metals** trapped in enterohepatic circulation. Binds and removes intestinal heavy metals.
• **Leads to lowering of blood mercury levels**, allowing organ and tissue bound mercury safely to drain into the blood at a natural rate.
• **Improves the body’s natural detoxification ability** by quenching free radicals and stopping metal-catalyzed free-radical reactions which can lead to inflammation and cause down-regulation of detox transporters (Phase III transporters — OATs, cMOAT, MRPs, etc).¹
• **Fortifies the link between the intestines and the immune system.**

Active Chemistry of IMD

The Intestinal Metals Detox (IMD) is a proprietary product that consists of highly purified silica with covalently attached thiol metal-binding groups. Both the silica base and the binding agents are GRAS (Generally Recognized as Safe) for use in food. The specific chemistry of the compound has several benefits over other detoxification remedies.

- The active binding groups out-compete other compounds for metals in the intestines.
- Because IMD does not enter the bloodstream, it will not lead to redistribution or surges of mobilized metals that can lead to potential kidney/liver overload. In fact, preliminary data suggests increased liver function in some patients, as measured by changes in bilirubin levels.

Eliminating Disruptions in Natural Body-wide Detoxification

Intestinal inflammation inhibits elimination of toxins by causing a strong down-regulation of the body’s natural detoxification pathways.¹ Ironically, exposure to certain toxins contributes to intestinal inflammation. For example, the corrosion of amalgam mercury results in mercuric mercury (Hg⁰, also called inorganic mercury) release. When swallowed with saliva, Hg⁰ can cause intestinal inflammation and initiate this negative feedback.² In addition to inflammation, it has been demonstrated that a build up of metals alone slows the transport proteins.³ The data suggests that continuous removal of metals from the intestines is essential for the proper daily functioning of natural detoxification processes. The continuous removal of metals is also critical for a successful practitioner-directed detoxification program.

**Recommended Usage:** Begin with one-half scoop for 3 days to test tolerance. Once tolerance is established, use one full scoop per day in 4-6 oz water with 2-6 pumps Etheric Delivery Vitamin C with R-Lipoic acid or other source of soluble vitamin C. Alternately, the product combines well with Etheric Delivery EDTA with R-lipoate. Slowly titrate up the dose over several months to 3 or 4 doses per day. Use product in cycles of 5-days-on/2-days-off or 10-days-on/4-days-off. Some very sensitive individuals need to start with even less than one-half scoop.

<table>
<thead>
<tr>
<th>SUPPLEMENT FACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serving Size: 1 scoop</td>
</tr>
<tr>
<td>Amount Per Serving Value</td>
</tr>
</tbody>
</table>

| Proprietary thiol-functionalized silica | 100 mg | * |

* Daily Value not established


³ Wortelboer, H. M.; Balvers, M. G. J.; Usta, M.; van Bladeren, P. J.; Cnubben, N. H. P., Glutathione-dependent interaction of heavy metal compounds with multidrug resistant proteins MRP1 and MRP2. Environmental Toxicology and Pharmacology 2008, 26, 102-108.
PURIST
ADVANCED COUNTERTOP DRINKING WATER PURIFIER
As the PURIST name suggests, the scientific, no frills design of this drinking water appliance is responsible for its extraordinary performance and simplicity of operation. When it comes to reducing contaminants in tap water, a primary concern of health-conscious and health-impaired individuals, the PURIST is without equal.

The PURIST’s Many Uses

The PURIST turns most tap water into pure, neutral pH, H₂O. It is the preferred choice for drinking, cooking, teas, soups, health shakes and beverage mixes. Other important uses include washing fruits and vegetables, rinsing skin and hair, fasting and colonic irrigation. PURIST water is of course ideal for making enhanced functional water with Purative add-ins such as QuintEssential 3.3 ocean minerals and Active H-minus ultra anti-oxidizing tablets with -700 ORP.

Modern Technology Plus 80 Years of Engineering Experience

The PURIST utilizes the best technologies in just the right combination to achieve the highest practical reduction of contaminants that have been found in the world’s tap waters. The four-stage system in the PURIST includes:

- Sediment and turbidity reduction (cartridge #1)
- Chlorine and chloramines reduction (cartridge #1)
- Reverse Osmosis (RO) molecular and ionic separation (cartridge #2)
- Activated carbon residual VOCs adsorption (cartridge #3)
ADVANCED COUNTERTOP DRINKING WATER PURIFIER

PURIST Features

- **TANKLESS** - The PURIST eliminates the storage tank, a design feature that assures a consistently higher standard of chemical and microbiological purity than other conventional systems. You can use the PURIST to process fresh water each time or store in glass containers for future use.

- **FILTER & MEMBRANE CHANGE INDICATOR** — Users don’t have to wonder when it’s time to replace their water treatment cartridges. The PURIST electronically tracks the amount of time the cartridges are in use and indicates when to order and when to replace them.

- **WATER QUALITY MONITOR** — The PURIST includes an advanced electronic monitor that provides instant and exact water quality information. Pushing the button will display a numerical comparison of the tap water quality to the treated water quality.

User Friendly Hook-up

Included with the PURIST box is a special adapter that installs on any standard faucet in just minutes. The user then snaps on the PURIST’s quick-connect tube and immediately starts making pure water. The design allows the faucet water to be used without disconnecting the appliance.

The PURIST is Perfect for Emergency and Survival Use Too

The PURIST can supply pure, safe water from most any clear source of water — not just tap water. This includes lakes, streams, reservoirs and even swimming pools. An optional pump kit is available which allows the appliance to be used with non-pressurized sources of water.
PURIST APPLIANCE OPERATING AND PERFORMANCE SPECIFICATIONS

WATER SUPPLY REQUIREMENTS
Pressure Range: 30 psi to 100 psi (1.7 to 6.9 BAR)
Temperature Range: 40°F to 85°F (4°C to 30°C)
(Water pressure and temperature determine the pure water production rate)
Maximum Total Dissolved Solids (TDS): Less than 2000 ppm (mg/L)
Microbial Quality: Water supply must be microbiologically safe

PURIST PERFORMANCE
Production Rate: 40 to 50 gallons per day at 60 psi (4 BAR) and 77°F (25°C)
Typical Reduction of Particle Impurities: >99%
Typical Reduction of Ionic Impurities: 90-98%
Typical Reduction of Molecular Impurities: >95%
Dimensions: 14.5”L x 7.5”W x 13.5”H

Water & Wellness Solutions, Inc.
3760 Barron Way, Reno, NV 89511
866-257-8168
www.Purative.com
### The Superior Performance of Purist

**Advanced Countertop Drinking Water Purifier**

<table>
<thead>
<tr>
<th>Contaminants</th>
<th>Bottled Water</th>
<th>POU Media Filters</th>
<th>Alkaline Ionizers</th>
<th>Purist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inorganics</strong></td>
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</table>

- ? Unknown Quality
- ○ No Reduction
- ● Partial Reduction
- ✓ Effective Removal
- * Requires Additional Technology
## THE SUPERIOR PERFORMANCE OF PURIST

ADVANCED COUNTERTOP DRINKING WATER PURIFIER

<table>
<thead>
<tr>
<th>Contaminants</th>
<th>Bottled Water</th>
<th>POU Media Filters</th>
<th>Alkaline Ionizers</th>
<th>PURIST</th>
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</tr>
</tbody>
</table>

- Unknown Quality
- No Reduction
- Partial Reduction
- Effective Removal
- Requires Additional Technology

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**VITAMIN C with R-Lipoic Acid**

*Quicksilver Scientific’s Etheric Delivery™ Vitamin C w/ R-Lipoic Acid* is the most absorbable form of professional-grade Vitamin C. Vitamin C is essential to any detoxification program because it feeds the system that eliminates toxins. It is also very effective in removing lead and other heavy metals from our system and fighting off the free radicals that form in the liver during the first phase of detoxification. R-Lipoic acid (as sodium R-Lipoate) has an exceptionally well-documented ability to upregulate the glutathione system via the Nrf2 nuclear transcription pathway. This combination of Vitamin C and R-Lipoate in a nanoliposomal delivery potently harnesses the potential of Vitamin C to the power of a fully-functioning glutathione system.

**Quicksilver Scientific Etheric Delivery™ Phospholipid Encapsulation System**

*Quicksilver’s Etheric Delivery™ Phospholipid Encapsulation System* brings the power of intravenous therapy into a convenient oral delivery.

The absorption of conventional oral Vitamin C diminishes rapidly as the dose increases (e.g. ~19% for 1000 mg oral vitamin C). Nanosphere delivery greatly increases absorption and for some compounds can provide higher intracellular delivery than an IV can!

Smaller, more stable, single-layer spheres made from the highest-grade ingredients available induce exceptional absorption rates. The nanospheres that Quicksilver produces have demonstrated the ability to cross the blood-brain barrier, deposit their cargo intracellularly and enhance lymphatic circulation of nutrients. Additionally, the phospholipids that compose the liposome shell feed the cell membranes. This ensures the proper function for the absorption of nutrients and the excretion of cellular waste products and toxins.

**SUPPLEMENT FACTS**

<table>
<thead>
<tr>
<th>Serving Size: 2 mL (4 pumps)</th>
<th>Amount</th>
<th>% Daily Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium</td>
<td>65 mg</td>
<td>2.7</td>
</tr>
<tr>
<td>Vitamin C (as sodium ascorbate)</td>
<td>500 mg</td>
<td>834</td>
</tr>
<tr>
<td>Sodium R-Lipoate</td>
<td>25 mg</td>
<td>*</td>
</tr>
<tr>
<td>Phosphatidyl Choline (from purified soy lecithin)</td>
<td>153 mg</td>
<td>*</td>
</tr>
</tbody>
</table>

*Daily Value not established

Other Ingredients: Water, ethanol, glycerine, Phospholipids, lemon essential oil

**Production Technology Features:**

- Tightly controlled small sizing, verified by Laser Dynamic Light Scattering on each batch.
  - Mean size 50-100nm
- Flavored with essential oils, giving pleasant citrus taste, suitable for intra-buccal delivery.
- Precise pump delivery
- Easy water dispersability when desired

**Benefits:**

- Intraoral delivery for best systemic availability
- Easy to dispense and take directly from bottle
- Other uses beyond detoxification:
  - Immune support during cold and flu season
  - Vitamin C and R-lipoate stimulate fibroblast activity to support collagen production from topical skin application.

**General Suggested Usage:** General use of product for antioxidant and detoxification function, use 8 pumps per day (1000mg of Vitamin C and 50mg of R-Lipoate). For advanced intermittent use, use up to 50 pumps per day (6250mg Vitamin C and 312.5mg R-Lipoate) or more, in divided doses through the day. For detoxification protocols, especially with metal toxicities, build dosage gradually, starting from low doses, as they are tolerated. If strong detox reactions are observed, back off dosage. Children should start at ~1/4 of adult (2 pumps per day) dosage and work up. For topical application, one pump can cover the face for a daily treatment, or use several pumps as a mask and leave on for 10-15 minutes; skin can be rewetted and left for another 10 minutes before rinsing excess off.