

MICROPLASTIC AND NANOPLASTIC DETOXIFICATION AND TURMERIC-BOSWELLIA C



Executive summary: *There are major concerns about microplastics and nanoplastics that enter into the human body orally and/or through breathing. Although there is no universally accepted way to detoxify the body of all of them, there are foods such as acerola cherries, fenugreek, ginger, boswellia, and turmeric that have been shown to support the reduction of inflammation and may support physiological defenses against oxidative or inflammatory stress associated with microplastic exposure.*

This is because of their:

1. Nutrient components (vitamin C, quercetin, saponins),
2. Containing amphiphilic compounds that may form micelle-like structures during digestion,
3. Ability to support bile metabolism, and
4. Ability to prevent and/or remove oxidative damage (which can be an indirect result of plastic ingestion).

Turmeric-Boswellia C contains a combination of those foods. Studies support the view that the combining of these foods is synergistically beneficial for human health.

Plastic Issues and Remedies

“Nanoplastics (NPs) as contaminants in food and water have drawn increasing public attention ... NPs reduce brain function” [1]. Microplastics and nanoplastics are being implicated in neurological degeneration, negative effects of aging, and other matters. Animal studies have shown these plastics can trigger inflammatory responses [1,2].

Avoidance of all such plastics is basically impossible in the 21st century, but people would be wise to reduce exposure.

Beyond that, while there is no accepted ‘treatment’ for all ingested microplastics or nanoplastics, that does not mean that foods and nutrients from foods cannot be helpful in their removal.

Consider that many foods and herbs have historically been used to assist with inflammation [1]. The combination of anti-inflammatory foods found in **Turmeric- Boswellia C** is something to consider.

Understand that plastics are composed of hydrophobic molecules [3]. It has been shown that amphiphilic block copolymers self-assemble into micelles with a hydrophobic core that can solubilize/encapsulate hydrophobic molecules such as those found in plastics [3].

A micelle is a supramolecular structure formed by amphiphilic molecules — compounds with both a hydrophobic (nonpolar) part and a hydrophilic (polar) part. They spontaneously form spherical (or sometimes cylindrical) aggregates in aqueous solution, with the hydrophobic tails inward and the hydrophilic heads outward. Classic

examples include detergents, bile salts, phospholipids, and saponins.

While no foods literally contain amphiphilic micelles in the same structured form found in lab surfactant systems, many foods naturally form micelles during digestion, or contain molecules capable of forming micelles once mixed with bile or water-fat interfaces.

Foods such as acerola cherries, fenugreek, ginger, boswellia, and turmeric have often been found to work better together than separately. Furthermore, they do contain molecules that can act amphiphilically and may form micelle-like or colloidal aggregates under certain conditions (especially in water or oil-water mixtures). So, while they don't contain pre-formed micelles in the same sense as soap or bile, extracts from these plants can self-assemble into micelle-like colloids because of their natural amphiphilic compounds. This may account for the finding that some substances contained within them, like saponins which are in all of them (though most abundant in fenugreek), may influence microplastic aggregation, adsorption, and elimination [4].

Saponins are textbook amphiphilic molecules and form micelles that can encapsulate hydrophobic substances [5,6]—microplastics are hydrophobic substances. Yet, most microplastic particles are too large to be encapsulated in micelles. Any effect from saponins on microplastics would likely relate to surface adsorption or changes in aggregation, as opposed to true micelle entrapment.

Although many plastics/polymers are electrically neutral, their surface reactivity and leached chemicals can provoke oxidative stress. Thus, their presence in living organisms can result in oxidative damage [7]. Therefore, antioxidant containing foods (like acerola cherries) can help reduce, as well as "clean up," some of that damage.

Acerola Cherries

Acerola Cherries (*Malpighia Emarginata DC*) are one of the richest natural sources of vitamin C and contain phytonutrients like carotenoids, phenolics, anthocyanins, and flavonoids [8]. **"The vitamin C produced by acerola is better absorbed by the human organism than synthetic ascorbic acid"** [9]. The presence of functional phytochemicals in acerola has been shown to influence the intestinal epithelial cells to increase the cellular uptake of vitamin C as opposed to vitamin C alone [10]. "Acerola...contains bioflavonoids" [11], anthocyanins, and quercetin [12]. An animal study found that "acerola juice reduces low-grade inflammation" [13]. Vitamin C "occurs in the body in the form of ascorbate, known for its strong antioxidant and anti-inflammatory properties" [14].

Not only does vitamin C have free radical scavenging abilities, it also has been shown to increase the antioxidant abilities of some other foods [6]. Vitamin C has been shown to "reduce stress markers and inflammation by neutralizing harmful molecules, activating protective pathways, and regulating autophagy, providing potential protection" associated with microplastics [4]. Curcumin, which is a component of turmeric, tends to improve the anti-inflammatory traits of vitamin C [15]. Studies show that vitamin C can reduce toxicities [16]. Acerola cherries contain both vitamin C and bioflavonoids which work synergistically, whereas one study showed that vitamin C "acts synergistically to protect cutaneous tissue cells in culture against oxidative damage" [16].

An *in vitro* study performed at Doctors' Research with a digital ORP meter demonstrated that a citrus food vitamin C has negative ORP, but that ascorbic acid had positive ORP [17]. It is negative ORP which better helps clean up oxidative damage [18]. Since ascorbic acid has positive ORP (as well as positive redox potential [19]), it can never replace food vitamin C. Thus, high vitamin C foods, such as acerola cherries, should be considered when plastic ingestion contributes to free radical damage.

Boswellia Gum

Boswellia Gum (*Boswellia Serrata*), also known as frankincense, has been shown to have anti-inflammatory and anti-oxidant properties [20,21]. An animal study is helpful against the effect of toxicants [22]. Boswellia's anti-inflammatory and anti-oxidant properties may account for its protection against induced toxins [23]. "The gum exudate obtained from the bark of the tree *B. serrata*, also called Indian olibanum, has been ... widely used in various formulations for the treatment of inflammation" [24].

Boswellia contains triterpenoids. Triterpenoids, although themselves highly hydrophobic, can form colloids in the presence of other amphiphilic compounds (e.g., phospholipids or surfactants in extracts) [25]. "For several thousand years (~4000) *Boswellia Serrata* and *Curcuma Longa* have been used in Aryurvedic medicine for treatment of various illnesses ... which are mediated through pathways associated with inflammation ... The anti-inflammatory effects of boswellic acids and curcumin have translated to ... the improvement ... as shown in numerous clinical trials" [26]. Other studies have also pointed to the synergistic benefit of combining boswellia and turmeric together [27]. Another paper concluded that boswellia and fenugreek worked well together [28].

Fenugreek

"Fenugreek (*Trigonella Foenum Graecum L.*) (FG) is a plant ... with ... anti-inflammatory, anti-oxidant, ... effects ... evidence supports a role for fenugreek in protecting against ... inflammation" [29]. It is approved by *German Commission E* for inflammation of the

skin [20]. It has also been found to be helpful for dealing with toxins and inflammation of the lungs [30]. **Fenugreek gum and Boswellia gum have been found to work synergistically** [31]. Fenugreek contains quercetin [32]. Fenugreek also contains saponins [20]. Saponins in fenugreek can influence bile acid metabolism and lipid emulsification, which may aid in the detoxification of nanoplastics [33]. Fenugreek saponins, "After oral administration, with gentle stirring in the gastrointestinal fluids, they form micro- or nanoemulsions" [34]. Thus, that could also be why fenugreek can be helpful in detoxifying from nanoparticles substances like plastics.

Ginger Rhizome

Ginger Rhizome *Zingiber Officinale* has anti-inflammatory effects [20]. "Scientific evidence supports the beneficial properties of ginger, including antioxidant and anti-inflammatory capacities" [35]. "Ginger, a well-known natural product, has been demonstrated to possess antioxidant, anti-inflammatory, ... properties" and supports "healthy aging" [36]. "Overall, eight RCTs reported the anti-inflammatory effect of ginger supplementation" [37]. On a totally different note, a randomized double-blind study **found health benefits when fenugreek, ginger, and turmeric were combined** [38]. **An animal study found that ginger looked to help protect against toxic changes caused by a type of plastic** [39]. Ginger aids with bile metabolism [40]. Since *in vitro* research suggests that bile salts potentially appear to assist in aggregation of micro and nano plastics [41], this may represent one pathway by which ginger could influence the processing or aggregation of plastic particles, and thus may be a way ginger assists in the removal of plastics in the body.

Turmeric

Turmeric (*Curcuma Longa*) is a type of herb belonging to ginger family ... Turmeric's effects on health are generally centered upon an orange-yellow colored, lipophilic polyphenol substance called "curcumin," which is acquired from the rhizomes of the herb. Curcumin is known to have antioxidant, anti-inflammatory, ... effects [42]. "Turmeric has antihepatotoxic ... and anti-inflammatory effects" [20]. *Curcuma longa* (syn. *C. domestica* Valetton and *C. brog* Valetton) is also known as "turmeric" worldwide [43]. "In general, curcumin is beneficial to human health, demonstrating pharmacological activities of anti-inflammation and antioxidation" [44]. **Curcumin in combination with boswellic acid is more effective "presumably due to synergistic effects of curcumin and boswellic acid"** [45]. Turmeric compounds support "healthy aging" as they have helped prevent cellular damage [46] and may offer protective antioxidant activity against microplastic-induced stress [4]. A study including turmeric, ginger root, vitamin C, and boswellia extracts concluded there was efficacy of the blend [47]. Curcumin can form nanosized colloidal aggregates in aqueous media and in the presence of natural emulsifiers [48], hence that may explain turmeric's aiding in the expulsion of microplastics.

Scientific research has concluded that the combinations of antioxidants such as vitamin C (which is in acerola cherries), quercetin (which is in acerola cherries and fenugreek) and curcumin (which is in turmeric) have been found to "reduce stress markers and inflammation by neutralizing harmful molecules, activating protective pathways, and regulating autophagy, providing potential protection" associated with microplastics [4].

Based on current scientific literature, ingredients such as turmeric, boswellia, fenugreek, ginger, black pepper, and acerola cherries provide synergistic antioxidant and anti-inflammatory support that may help mitigate some biological effects associated with microplastic exposure.

Various peer-reviewed scientific papers have concluded that combinations of these types of foods have been found to be more effective than many of them alone for things like inflammation and plastic detoxification.

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ADJUNCTIVE PRODUCTS:

Liva-DeTox & Support, Herbal Antioxidant and Intestinal Support



Dr. Mercola has written, “**The liver also plays an essential role in clearing microplastics from the bloodstream** — Specialized immune cells in the liver, known as Kupffer cells, help trap these foreign particles and route them into bile for elimination via the intestines.” [49]. “The basic functions of the liver can be divided into (1) its vascular functions for storage and filtration of the blood, (2), its metabolic functions concerned with the majority of the metabolic systems of the body, (3) its secretory and excretory functions...About 1100 milliliters of bloods flows from the portal vein and into the liver sinusoids each minute, and about an additional 350 milliliters flows into the sinusoids from the hepatic artery” [50]. The liver thus partially detoxifies the equivalent of all the blood in the body several times per hour. The liver contains Kupffer cells, which are large macrophages that can efficiently cleanse the blood [50]. **Liva-DeTox & Support** which contains **bovine liver tissue** provides nutrients traditionally associated with liver support [51]. **Liva-DeTox & Support** contains **milk thistle** which is a source of **silymarin**. **Silymarin** appears to be helpful as an adjunctive for inflammation and oxidative stress management, which may be relevant to microplastic exposure for potential plastic detoxification [52]. **Liva-DeTox & Support** also supplies **beets** and **garlic**. Garlic has anti-inflammatory uses, whereas **beets** are said “to have antihepatotoxic effects...probably due to the herb’s concentration of betaine” [20].

For additional antioxidant and detoxification support, consider **Herbal Antioxidant**. **Herbal Antioxidant** synergistically combines 12 antioxidant containing foods, including acerola cherries, ginger, milk thistle (silymarin source), and turmeric (curcumin source).

Also consider **Intestinal Support**, which includes **bovine intestinal, lymphatic, and pancreatic tissue** as well as **collinsonia**. An in vitro study involving rat derived intestinal epithelial tissue found that those tissues did uptake microplastics [53]. This lends support to the view that ingestion of bovine intestinal tissue may do the same thing, and as it would tend to be excreted, this could result in less microplastics remaining in the human body. Bovine pancreatic tissues naturally contain digestive enzymes. Lymphatic tissue contains macrophages [50]. Macrophages in the lymph nodes act as “clean-up” cells as they engulf and digest foreign particles that enter the lymph through lymphatic vessels. As oral consumption of bovine glands have long been considered by proponents to assist the organ they are related to in the human body [e.g. 54-56], it may be concluded that providing intestinal, lymphatic, and pancreatic tissue may help the excretion processes of intestines in humans. Collinsonia root (also known as stone root) which has long been used as an intestinal tonic and to aid against inflammation [20].

Yes, there is scientific evidence that ingredients in products such as **Turmeric-Boswellia C, Liva-DeTox & Support, Herbal Antioxidant, and Intestinal Support** should be considered to aid individuals who are concerned about ingested microplastics and nanoplastics.

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