

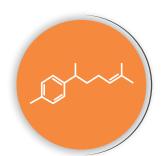
Ortho Molecular Products

Turiva | Complete Turmeric Matrix



The History of **Turmeric**







2000 BC

1842

2007

Turmeric used as a culinary spice and medicinal herb.

A. Vogel isolates pure curcumin, initiating new research into the powerful health benefits of turmeric root. The first scientific study on curcumin is published in 1849.

Pharmaceutical model for curcumin emerges, with enhanced delivery systems to bypass the gut and improve absorption, but this model lacks evidence of clinical efficacy.

NON-CURCUMINOID COMPOUNDS





2013

2019

2020

Unraveling flaws in the bioavailability model of curcumin, new research reveals the non-curcuminoid compounds of turmeric are highly active and target the gut microbiota.

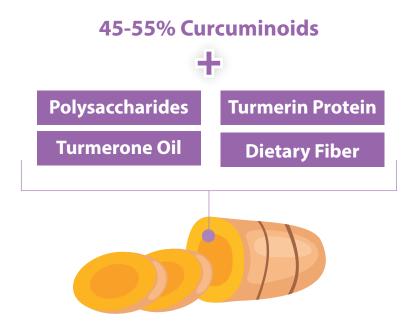
Research establishes the gut microbiota may be the primary target of turmeric and all of its compounds. Ortho Molecular Products launches Turiva, which contains an exclusive blend of bioactive phytonutrients that make up the Complete Turmeric Matrix for increased clinical efficacy.

Re-Framing Bioavailability

More Absorption Doesn't Always Equal Better Efficacy

Botanicals are amazing! They have many different compounds working in unison to help patients achieve their best results. In herbal medicine of old, practitioners used teas, tinctures, and extracts of all types. In the 21st century, as pharmaceutical methods have been applied to botanicals, much of the focus has turned to isolating a single compound and defining the botanical's health benefits based on that individual compound. In some ways, these advances have been positive, allowing the confirmation of botanical origin, identity, and purity. However, one of the glaring disadvantages of applying the pharmaceutical model to botanicals is this approach misses the benefits of all the other bioactives in botanicals.

Turmeric is a great example of this. Research has become hyper-focused on increasingly concentrating curcuminoids and enhancing their absorption. Claims of up to 100 times better absorption are commonly touted in the marketplace. For all this evidence, no study has ever showcased improved clinical outcomes with these products. In fact, new research on curcumin-free turmeric extracts is taking turmeric science back to its roots, showcasing improved efficacy when the complete matrix of turmeric compounds is delivered. Turiva delivers the Complete Turmeric Matrix, which includes compounds from the entire root, all working together as nature intended to deliver improved patient outcomes.



Don't Bypass the Gut!

The Microbiome as a Key Target of Turmeric

Due to the poor systemic bioavailability of curcumin, the pharmaceutical model for curcumin includes enhanced delivery systems designed to bypass the gut and improve absorption. But this model lacks clinical efficacy, and misses the primary target of turmeric: the gut microbiome. A growing number of studies show curcumin, specifically in combination with its derivatives, exerts direct regulating effects on the gut microbiota.



Key Targets of CTM



Helps Detoxify Endotoxins

CTM maintains levels of intestinal alkaline phosphatase (IAP) and helps balance endotoxin effect



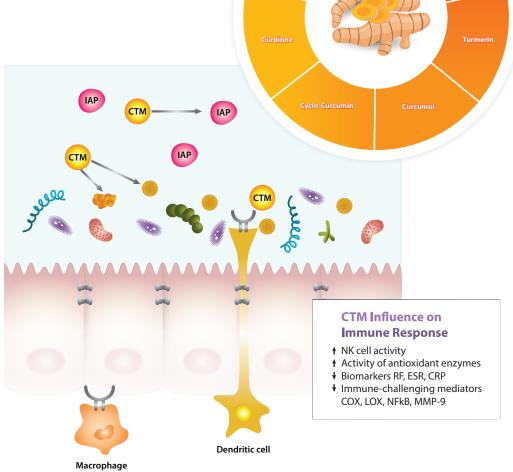
Creates Microbial Balance

CTM supports the abundance of beneficial bacteria, including *Bifidobacteria*, *Lactobacilli* and butyrate-producing bacteria

3

Modulates Immune Signals

CTM binds to MD2 protein domain of TLR-4 and blocks the attachment of endotoxins reducing the signaling cascade of IL-6, TNF-alpha, NfKb

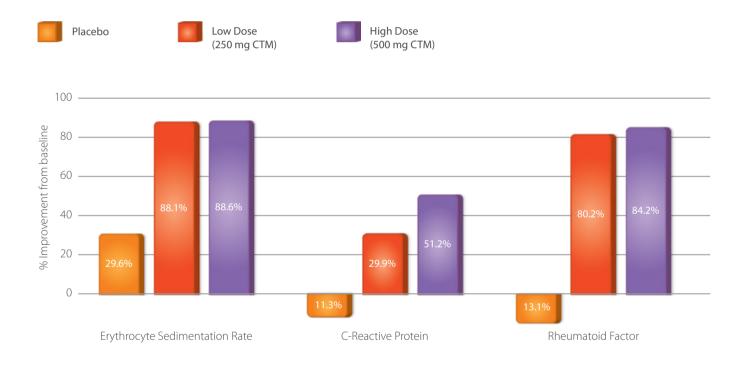


Complete Turmeric Matrix

Studies on CTM and Autoimmunity

Autoimmunity is on the rise globally and is connected to a myriad of health challenges. CTM is a powerful immune modulator that helps maintain normal inflammatory balance through a multidimensional approach. CTM impacts the most prominent markers of health in autoimmunity to support those with immune challenges.

Immune Modulation with CTM



Thirty-six patients were randomized into three groups and received placebo, 250 mg or 500 mg of Complete Turmeric Matrix product twice daily for 90 days. The patients were assessed based on several biomarkers of immune health, such as C-reactive protein, erythrocyte sedimentation rate and rheumatoid factor. Study participants showed significant changes in these biomarkers, a strong indication of immune health.²

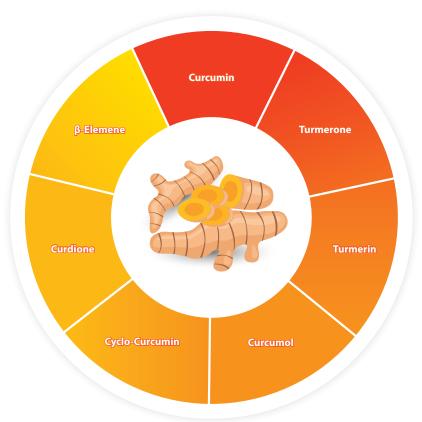
Turiva

Complete Turmeric Matrix

- The only full-spectrum turmeric supplement standardized to contain 45%–55% curcuminoids, 2%-6% turmerin protein and 3%-8% volatile oil
- Includes an active array of additional tumeric compounds

Clinical Applications

- Helps maintain normal inflammatory balance
- Promotes microbiome diversity
- Supports normal intestinal barrier function
- ✓ Helps balance immune function





Supplement Facts Serving Size 1 Capsule Servings Per Container 60 Amount Per Serving Value 1 capsule contains Serving Value Turmeric Root Extract 500 mg * (Complete Turmeric Matrix) (Standardized to contain 45-55% Curcuminoids, 3-8% Volatile Oil, 2-6% Turmerin)

ID# 172060 60 capsules

SUGGESTED USE:

* Daily Value not established

1 capsule per day or as directed by your healthcare professional.

