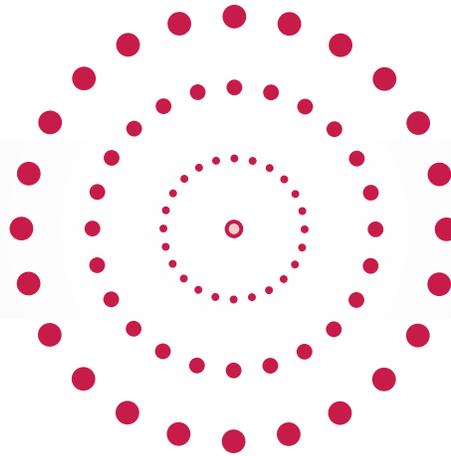


MICROACTIVE® TECHNOLOGY

IMPROVED BIOAVAILABILITY
SUSTAINED RELEASE



UNIFORM ABSORPTION
ENCAPSULATION BY DESIGN

MICROACTIVE® ingredients demonstrate superior uniform absorption, supported by over ten clinical studies. Ingredients are micronized and encapsulated by design using natural starches or polymers to fit the individual characteristic of each ingredient. The micronization phase produces a period of rapid efficient-exposure followed by the encapsulation phase that produces a lengthy extended release. Absorption is further enhanced with carriers that assist the active to move through the intestinal wall. The final result is a free flowing powder with the following benefits:

- High cost-effective payload normally 25% to 50%
- Applicable to hydrophobic, hydrophilic and partially hydrophilic ingredients
- Can be formulated with other actives
- Applicable for hard caps and soft gels
- Water dispersible for foods, juices or effervescent applications
- Clinically proven in oral-care products
- By comparison:
 - Does not contain absorption enhancers that might over time increase the absorption of unwanted compounds such as carcinogens
 - Superior sustained release as compared to the most popular advanced formulations on the market

MICROACTIVE PRODUCTS		HIGHLIGHTS
COQ10	26% Active	Doubles CoQ10 serum levels in 3 weeks among 100 percent of subjects, 3 times more bioavailable the crystalline CoQ10.
CURCUMIN	25% Active	Ten time more bioavailable than 95% curcumin powder. Single dose resulted in detectable amounts of Bisdemethoxycurcumin and Demethoxycurcumin. Well tolerated at high dosage.
RESVERATROL	30% Active	Resveratrol may have cardioprotective, antioxidant, anti-inflammatory, neuro-protective and anti-aging activities but it also has low bioavailability - and is rapidly eliminated. MicroActive® formulation with sustained release increased the residence time and absorption.
OLIGONOL	30% Active	Human studies showed that Oligonol promotes circulation by relaxing blood vessels, acts as a potent antioxidant (6,900 ORAC), and supports a healthy response to inflammation. MicroActive® Oligonol demonstrated a significant sustained release component in dissolution studies, with increased residence time and absorption in a human study.
PQQ	50% Active	Protects against mitochondrial damage and in so doing protect brain function and retard aging. Pilot human study MicroActive® PQQ shows an extended release and increase absorption of this water soluble ingredient. Improved absorption is due to increased residence time.
POLICOSANOL	14% Active	Policosanol has been shown in clinical studies to reduce cholesterol and blood pressure. Policosanol is a waxy material, insoluble in water. Patented MicroActive® Policosanol is a water dispersible form of this hydrophobic ingredient.