



# An Innovative Technology to Enhanced Absorption



## What is CuminUP60™ ?

CuminUP60™ is our premier natural ingredient made with Patent Pending CGSF technology. Usage of the Co-Grinding Solvent Free process provides an eco-friendly and sustainable solvent-free method to produce CuminUP60™, incorporating high purity curcuminoids to significantly improve curcumin water solubility and bioavailability.

## Health Benefits of CuminUP60™

- ✓ **Anti-inflammatory and Potent Antioxidant**
- ✓ **Helps Promote Immune, Skin Health & Joint Health**
- ✓ **Supports Cardiovascular Health**

## Compared to most of the Curcumin on the market, CuminUP60™



Boasts the Highest Curcumin Concentration at 60%



Solvent Free Green Process



Low Efficacious Dosage for Easy Formulation



50 Times Higher in Bioavailability



53 Times Higher in Water Solubility



112% Higher in Cell Uptake Ratio



Free Flowing, Easy to Handle and Process



Ideal for Foods, Beverage and Nutritional Applications

# CuminUP60™ Specification

Item	Specification
Appearance	Yellow free flowing powder
Odor	Characteristic
Taste	Characteristic
Particle Size	NLT 90% thru 80 mesh
Bulk Density (loose)	NLT 0.4 g/ml
Moisture	NMT 5%
Solubility in Water	Soluble
Curcumin	NLT 60%

## Water solubility



CuminUP60™



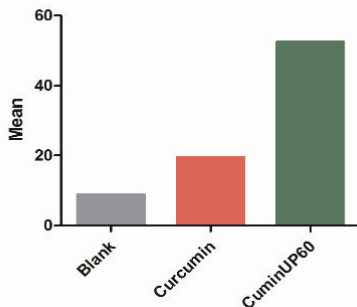
Curcumin

CUMINUP60

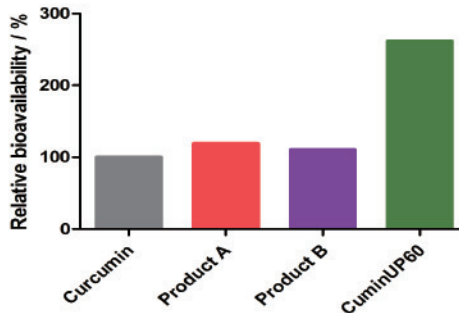
## In Vitro and In Vivo Clinical Studies

CuminUP60™ demonstrates high water solubility, and an increased cell uptake rate. Our special formulation is 50x more bioavailable than other curcumins on the market.

### Preliminary screening of curcumin cell intake

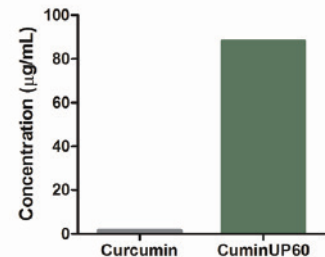


Cell culture study proves that CuminUP60™ enters cells more easily than untreated curcumin. Comparatively, cells have a greater curcumin uptake when exposed to CuminUP60™ at a rate twice the average curcumin product.



The in vivo rat studies indicate that CuminUP60™ has 162% more bioavailability than the average market curcumin product.

Product A: Curcumin from USA  
Product B: Curcumin from Italy



The water solubility test shows that CuminUP60™ yields a concentration at 88.2 µg/ml, 53 times greater than the average curcumin product on the market.

### Product Stability

Two-year shelf life if stored under cool, dry and dark conditions

### Our Customized Service also includes:

Contract Manufacturing for Finished Product and Botanical Extraction  
Formulation Design  
Functionality Evaluation