

THORNE RESEARCH

30 Years Ensuring Quality and Purity Via
Ingredient Sourcing, Testing, and Verification

ALL OF OUR RAW INGREDIENT SUPPLIERS ARE
QUALIFIED TO MEET PURITY STANDARDS

1,900+
RAW INGREDIENTS
TESTED
ANNUALLY



RAW INGREDIENTS
RECEIVED ARE
QUARANTINED

1 RAW INGREDIENT QUALITY TESTING

We only trust ingredients based on scientific proof/validation. In-house lab upholds quality control standards to maintain manufacturing excellence.



38 QA/QC PERSONNEL ON STAFF
10 State-of-the-art Testing Technologies \$1.7 M Investment

WHAT WE TEST FOR

IDENTITY TESTING	CONTAMINANT TESTING	
<ul style="list-style-type: none"> Verify Identity of Ingredient (Is the Certificate of Analysis from the correct supplier correct?) Verify Purity 	<ul style="list-style-type: none"> Yeasts and Molds Coliform Bacteria Other Pathogenic Organisms Moisture Content 	<ul style="list-style-type: none"> Pesticide Residue PCBs and Dioxins Heavy Metals (arsenic, lead, cadmium, mercury) Residual Solvents
<p>ADVANCED LABORATORY TECHNOLOGIES USED</p> <ul style="list-style-type: none"> Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) elemental quantification Near Infrared Spectrometry (NIR) chemical identity Ultra High Performance Liquid Chromatography with UV-Vis and Mass Analysis (UHPLC-MS) — best conditions for cation and anion analysis High Pressure Liquid Chromatography (HPLC) purity and identity check Pharmaceutical Grade Microbiology Lab — best for percent of pathogens Kal Factor Titrator and Moisture Balance — best for moisture content Additional Lab Capabilities — best for product analysis Inductively Coupled Plasma Mass Spectrometry (ICP-MS) — best for heavy metals, any for lead, iron, and mercury Shimadzu Sample Analysis (Size of Flight Mass Spectrometry) — best for pesticides, PCBs, dioxins, and PAHs 		

650 samples per month

PASS
RAW MATERIAL > MIXING/DISPENSING

500+ Total Formulations

2 In-process Quality Testing



PASS
FORMULA > ENCAPSULATION/BATCH PROCESSING

NO binders, coatings, disintegrants, or fillers or lubricants (including magnesium stearate) that might impair nutrient absorption

3 In-process Quality Inspection



PASS
ENCAPSULATION/BATCH > PACKAGING/LABELING

470 FINISHED PRODUCTS PER MONTH

4 Final Quality Testing STABILITY PROGRAM



PASS

3 MILLION finished supplement products delivered to practitioners and their patients

WHY INGREDIENT SOURCING MATTERS

The SUPPLEMENT FACTS box doesn't always tell the whole story

Thorne Research

Supplement Facts		Serves Size: Two Capsules	
		%DV*	
Two Capsules Contain:			
Pure Acrotic Acid	Vitamin C	60 mg	100%
Pure Vitamin B12	Vitamin D	400 IU	100%
Pure natural alpha Tocopheryl	Vitamin E	30 IU	100%
Pure Vitamin K	Pancreatin	18 mg	100%
Pure Riboflavin	Riboflavin	1.7 mg	100%
Pure Vitamin B12 as Methylcobalamin	Vitamin B12	6 mcg	100%
Pure Biotin	Biotin	300 mcg	100%
Pure, unadulterated Pepsin	Pepsin	300 mg	-
Pure, unadulterated Pancreatin	Pancreatin	1,800 mg	-
Pure, unadulterated Bromelain	Bromelain	18 mg	-
Pepsin	Pepsin	18 mg	-
* Daily Value (DV) not established			
Vegetarian capsule — Other Ingredients: Hypromellose (derived from cellulose) capsule.			

Other Manufacturer

Supplement Facts		Serves Size: Two Capsules	
		%DV*	
Two Capsules Contain:			
90% Ascorbic Acid, with 10% Gem Starb and Lactose	Vitamin C	60 mg	100%
0.1% Vitamin D3 dilution in a base of Dicalcium Phosphate Lactate, Acacia, BPE, Sodium Benzoate, and Sulfuric Acid	Vitamin D	400 IU	100%
5% of alpha Tocopheryl dilution in a base of hydrogenated protein, Sulfuric Acid, and Sodium Benzoate	Vitamin E	30 IU	100%
1% Vitamin K dilution in a base of Lactose	Vitamin K	80 mcg	100%
33% Riboflavin, with Mono- and Diglycerides of Fatty Acids, serving each particle for better flow and faster tracking	Riboflavin	1.7 mg	100%
33% Riboflavin, with Mono- and Diglycerides of Fatty Acids, serving each particle for better flow and faster tracking	Vitamin B12	6 mcg	100%
33% Riboflavin, with Mono- and Diglycerides of Fatty Acids, serving each particle for better flow and faster tracking	Biotin	300 mcg	100%
1% Biotin dilution in a base of Dicalcium Phosphate Lactate, Sodium Benzoate, and Sulfuric Acid	Pepsin	300 mg	-
Pancreatin, standardized with Lactose	Pancreatin	1,800 mg	-
Bromelain, standardized with Lactose	Bromelain	18 mg	-
Pepsin, standardized with Lactose	Pepsin	18 mg	-
* Daily Value (DV) not established			
Other Ingredients: Gelatin capsule.			

CERTIFICATIONS



Thorne Research is one of the first nutritional supplement companies in the practitioner channel to begin obtaining non-GMO verification from the prestigious NON-GMO Project.



Thorne Therapeutics (Thorne Research's skin-care division) is the only USDA organic certified skin-care line globally.



NSF is one of the most internationally respected independent certification organizations. Certification for general GMP and for sport and skin-care facility audits is planned for 2015.

COMPLIANCE

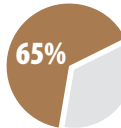
U.S. Food and Drug Administration (FDA)

Thorne Research complies with all FDA regulations regarding nutritional supplement manufacturing.

In 2013, 65 percent of dietary supplement companies inspected by the FDA were cited for regulatory violations.*

Almost 90 percent of the GMP violations were related to records, complaints, holding and distribution, equipment, and facility.*

*Source: Natural Products Insider 2014



Australian Government Therapeutic Goods Administration (TGA)

Thorne Research is one of the first U.S. supplement manufacturers to receive an A1 rating for GMP compliance by the Australian Therapeutic Goods Administration.



THORNE RESEARCH
Pure Ingredients. Trusted Results. Worldwide™