



Vitamin B3 for Beauty, Health, and Nutrition

Vitamin B3 is one of the eight B-complex vitamins and plays an essential role in many physiological functions. The body constantly uses vitamin B3 to support metabolism of carbohydrates and proteins, blood circulation, and the functioning of the nervous system. Most people do not consume or synthesize enough dietary vitamin B3 to support adequate health wellness. A chronic lack of vitamin B3 can cause pellagra, a vitamin deficiency disease.

Vertellus is the world's leading producer of the ingredients needed to make vitamin B3 and offers the product in two nutritionally equivalent forms, niacin (nicotinic acid) and niacinamide (nicotinamide). Each form has the same vitamin dietary benefit but different pharmacological effects.

Niacinamide

Niacinamide has the identical vitamin function as niacin without the vasodilating effect that can cause skin flushing, making this vitamin B3 form a suitable ingredient for oral and topical human applications. Manufacturers of energy beverages and dietary supplements include niacinamide in formulations to aid metabolism of protein, sugar and fat for energy conversion. Niacinamide is also used in a variety of cosmetic, skin care, and hair care products for anti-inflammatory, lightening and brightening, and conditioning benefits. Commercially available facial moisturizers, eye creams, anti-aging products for the face and body, hair shampoos, conditioners, and coloring treatments include niacinamide as an ingredient.

Vertellus' niacinamide for human applications is available in the following grades: USP, Free Flow, Low Niacin, and Fine Granular.

Niacin

The Vertellus manufacturing facility for niacin is FDA-inspected and compliant with FDA regulations for pharmaceutical applications. The production site has a current Drug Master File (DMF) with the US FDA. The United States Institute of Medicine (IOM) of the National Academy of Sciences has developed Dietary Reference Intake (DRI) values for niacin, resulting in niacin's use as a common ingredient in multivitamins and dietary supplements. Additionally, niacin is an active ingredient in prescription and over-the-counter cholesterol therapies. Vertellus niacin is ideal for direct tableting, blending with other solids and binding agents, food and beverage fortification, and dietary premixes.

Vertellus' niacin for human applications is available in a variety of grades: Active Pharmaceutical Ingredient (API), Fine Granular, Extra Fine Granular, and Powder.



NUTRITION



PHARMACEUTICAL



PERSONAL &
CONSUMER CARE



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Uses and Applications

Food and Beverage Fortification

- Flour enrichment
- Grain enrichment
- Cereal enrichment
- Energy drinks
- Meal replacements

Health and Beauty Products

- Cosmetics and toiletries
- Anti-aging and acne skin care
- Hair care
- Face and body moisturizers
- Toothpaste

Therapeutic Nutritional Ingredient

- Infant formulas
- Dietary supplements
- Multivitamins
- Nutritional beverages
- Adult nutrition

Niacin Certifications

- Meets United States Pharmacopeia specifications for Niacin
- Complies with Good Manufacturing Practice (cGMP) for manufacture of an Active Pharmaceutical Ingredient and Q7 quality standards, Standard 21 CFR 211
- US FDA Drug Master File (DMF)
- ISO 9001:2008
- Kosher
- Halal

Niacinamide Certifications

- Meets United States Pharmacopeia specifications for Niacinamide
- Complies with Good Manufacturing Practice (cGMP) for manufacturing, packing, or holding human food, Standard 21 CFR 110
- ISO 9001:2008
- Kosher
- Halal

Available Grades and Package Sizes

Niacin

Niacin USP	Powder	25 kg box
Niacin NF USP	Powder	25 kg box
Niacin API	Powder	25 kg box
Niacin USP Fine Granular	Granule	25 kg box
Niacin USP Extra Fine Granular	Granule	25 kg box
Niacin USP Powder	Powder	500 kg bulk bag

Niacinamide

Niacinamide USP	Powder	25 kg box
Niacinamide USP LN (Low Niacin)	Powder	25 kg box
Niacinamide USP Fine Granular	Granule	25 kg box
Niacinamide USP Fine Granular LN (Low Niacin)	Granule	25 kg box
Niacinamide USP, EP, BP, JP, FCC Fine Granular	Granule	25 kg box
Niacinamide Free Flow	Powder	25 kg box, 50 kg drum

Vertellus is a specialty chemicals company focused on the manufacture of ingredients used in pharmaceuticals, personal care, nutrition, agriculture, and a host of other market areas affected by trends favoring “green” technologies and chemistries. Vertellus is the leading global producer of pyridine and picolines, specialty pyridine derivatives, DEET, castor oil derivatives and systems, and citrate polymer additives and systems, and a world leader in vitamin B-3. Vertellus benefits from a technically advanced global manufacturing base and is a reliable, secure vitamin B3 supplier with backward integration to key raw materials.

For more information contact a Vertellus representative at

Vertellus Specialties Inc.
 Phone: 1-800-777-3536 option 1
 VitaminB3@vertellus.com
 www.vertellus.com