

ACTAZIN™



Superior Kiwifruit Ingredient
for digestive regularity





SUPERIOR KIWIFRUIT INGREDIENT *for digestive regularity*

Poor digestive health can affect consumers of all ages around the world. Constipation is a digestive problem affecting about 63 million people in North America and an average of 17% of the European population.

ACTAZIN™ is a kiwifruit supplement ingredient for digestive regularity. This new ingredient comes from New Zealand green Kiwifruit, which has been shown to support digestive health by promoting regularity and other long-term digestive health benefits. ACTAZIN supports digestive health and function without the gas and bloating side effects commonly associated with fiber laxatives. ACTAZIN has a normalizing effect on the bowel, so it can be used long-term to gently support motility without overstimulation.

COMPLIMENTARY PAIRING

ACTAZIN has been tested and shown to be compatible with probiotics due to its water activity. Studies show that combining ACTAZIN with probiotics would not impact the expected shelf life of the probiotic.

Note: Even at high doses, kiwifruit has not been shown to cause diarrhea, fecal urgency or cramping. Extensive toxicological and safety testing has shown that ACTAZIN is extremely safe for humans. However, it is not recommended for those with any known Kiwi allergy.

BENEFITS OF ACTAZIN*

- All-natural, GRAS, whole-fruit ingredient
- Supports gut health
- Supports digestive health and function
- Promotes regularity
- Gently supports gut motility
- Does not overstimulate the bowel
- Has not been shown to cause gas, bloating, diarrhea, cramping or fecal urgency
- Benefits within the first few days of consumption

ADVANCED SCIENCE

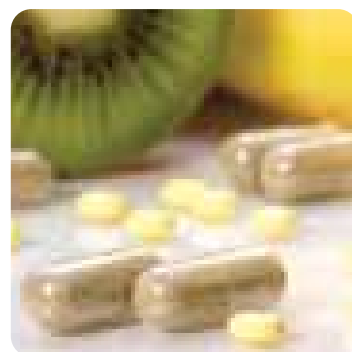
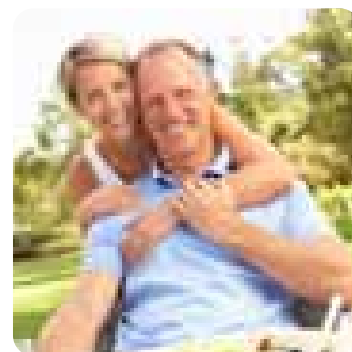
ACTAZIN green kiwifruit (*Actinidia deliciosa*) powder has a unique, natural composition of gut health supporting nutrients including prebiotics, fiber and polyphenolics, as well as the proteolytic enzyme actinidin. A dose of 400 mg/day is suggested to support regularity and digestive health.

- **The Actinidin Enzyme** belongs to the family of cysteine protease enzymes and contains a free sulfhydryl group essential for its activity. ACTAZIN has guaranteed levels of actinidin that are important for supporting digestive regularity.
- **Prebiotics** are substances that act as food for bacteria inside the gut. Gut bacteria play a major role in maintaining good digestion and overall health. ACTAZIN contains a unique combination of glucomannan and pectin.
- **The fiber** in ACTAZIN provides bulk, which helps support gut motility without causing bloating and gas (often associated with other fiber products). ACTAZIN contains about 10% dietary fiber by weight, of which 7% is insoluble fiber and 3% is soluble.

ACTAZIN TYPICAL PROPERTIES

Property	Limit
Appearance	Free flowing fine, light green powder (3.5% flow agent)
Shelf Life	18 months in a dry and cool storage environment
Actinidin	>7,500 AU/g ¹
Moisture	<5.0%
Water Activity	<0.25
Particle Size	70% between 20-40 mesh
Total Aerobic Plate Count	<10,000 CFU/g
<i>E. coli</i> /Coliforms	<10 CFU/g
<i>Enterobacteriaceae</i>	<10 CFU/g
<i>Listeria</i>	ND/25g
<i>Salmonella</i>	ND/25g
Yeast and Moulds	<5,000 CFU/g
Lead	<1 ppm
Total Heavy Metals	<5 ppm

¹Enzyme assay based on lysine digestion at 25°C.



NEW ZEALAND



CONSIDER THE SOURCE

ACTAZIN is a cold-processed powder derived entirely from New Zealand green kiwifruit using a special process which ensures the beneficial nutrients of the fruit are maintained. The actinidin enzyme and prebiotics are protected during the drying process using low heat.

ACTAZIN starts with the whole fruit, removes the skin and seeds, leaving the bright green flesh which is cold-processed into powder form. Our kiwifruit is harvested in prime summer conditions when the fruit is ripe with full nutrients. New Zealand has increased UV radiation as compared to other countries around the world of similar latitude. As a consequence, plants respond to elevated levels of UV-B light by increasing the production of secondary metabolites, such as polyphenolics. ACTAZIN, a completely natural product, is not chemically processed or enhanced in any way.

ABOUT STRATUM NUTRITION

Stratum Nutrition is *Empowering Product Innovation* with functional and specialty ingredients for manufacturers and marketers of foods, beverages, and dietary supplements. Stratum offers a portfolio of branded, value-added ingredients that are progressive, safe and reliable. These ingredients are based on consumer need, supported by science and the backing of a trusted multi-national company.

As a Novus International company, we support the Corporate Mission to make a clear difference in sustainably meeting the growing global needs for nutrition and health with a Vision to help feed the world affordable, wholesome food and achieve higher quality of life.



*These statements have not been evaluated by the Food & Drug Administration. Our products are not intended to diagnose, treat, prevent or cure any disease.

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