

# BROCCOLI



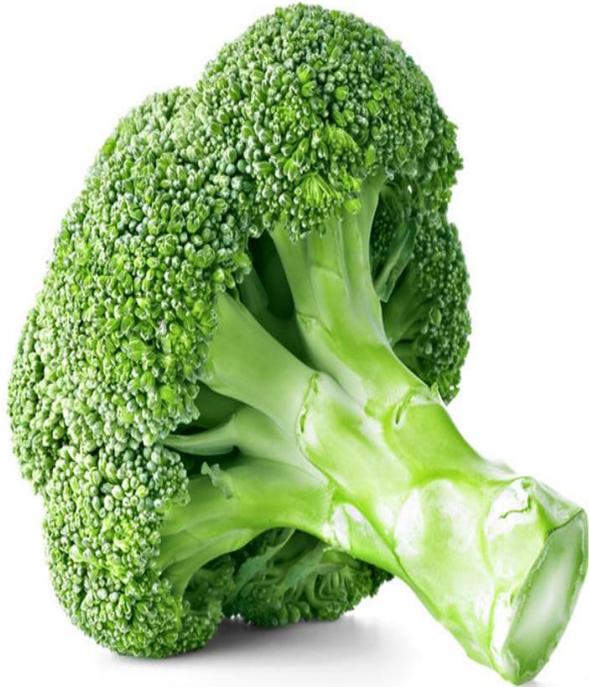
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# Broccoli



Broccoli is a very important crop in economic terms.

Worldwide, over 21 million tons of broccoli are produced each year

Broccoli is an excellent source of bioactive compounds, and thus, it is considered a functional food

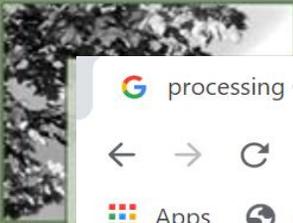
# Sprouting Broccoli

Broccoli is of two types: heading type and sprouting (green and purple) broccoli.

Heading broccoli forms curd like cauliflower; while **sprouting broccoli contains a group of green immature buds and thick fleshy flower stalk forming a head.**

**Sprouting broccoli is more popular in India.**

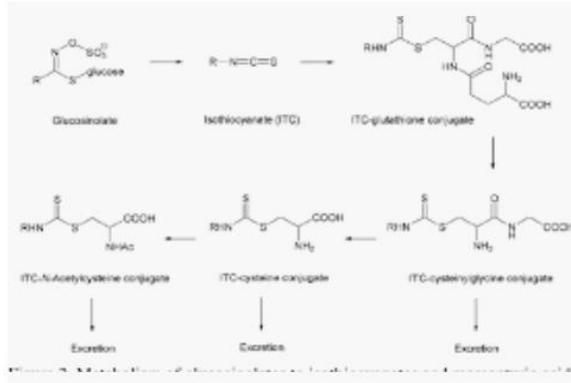




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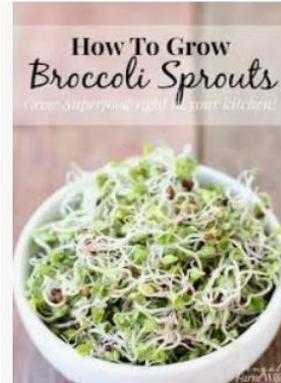
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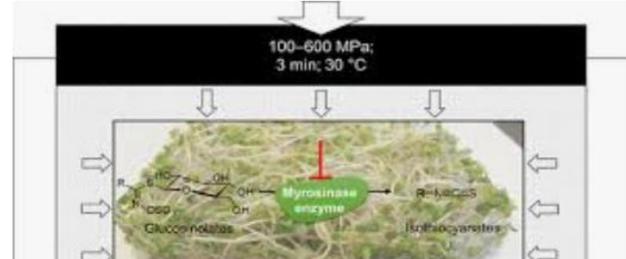
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# Bioactive Compounds



Phenolic compounds are among the nutraceuticals present in broccoli, mainly hydroxycinnamic acids and flavonoids

Broccoli also contains high concentrations of vitamin C, an essential nutrient.

Lutein, a Carotenoid of the xanthophylls group, is one of the most abundant carotenoids present in broccoli

# Glucosinolates

Glucosinolates are among the most distinctive nutraceutical compounds in cruciferous vegetables, including broccoli. They have high potential to prevent chronic diseases, especially cancer. These compounds possess a great antioxidant activity and may play a role in the prevention of several diseases, such as diabetes, cardiovascular diseases and neurodegenerative diseases.



# BROCCOLI SPROUT

Anti-Oxidative Supplement  
Detoxification Activity  
Beauty Function



US 20130323225A1

(19) **United States**(12) **Patent Application Publication**  
**Ashurst**(10) **Pub. No.: US 2013/0323225 A1**(43) **Pub. Date: Dec. 5, 2013**(54) **BROCCOLI BASED NUTRITIONAL  
SUPPLEMENTS****Publication Classification**(71) Applicant: **Jarrow Formulas, Inc.**, Los Angeles,  
CA (US)(51) **Int. Cl.**  
*A23L 1/30* (2006.01)(72) Inventor: **Kean Ashurst**, Taylorsville, KY (US)(52) **U.S. Cl.**  
CPC ..... *A23L 1/3002* (2013.01)  
USPC ..... **424/94.61**(21) Appl. No.: **13/910,576**(57) **ABSTRACT**(22) Filed: **Jun. 5, 2013**

A nutritional supplement is provided containing two broccoli based components that are combined and, when ingested, react in the intestines to provide sulforaphane. Processes for producing the broccoli components of the nutritional supplement are also provided. The broccoli components are treated separately using supercritical fluid extraction to remove oils. The temperature and pressure of the supercritical extraction processes are controlled to provide broccoli components hav-

**Related U.S. Application Data**

(60) Provisional application No. 61/655,569, filed on Jun



# Processing the Sprout



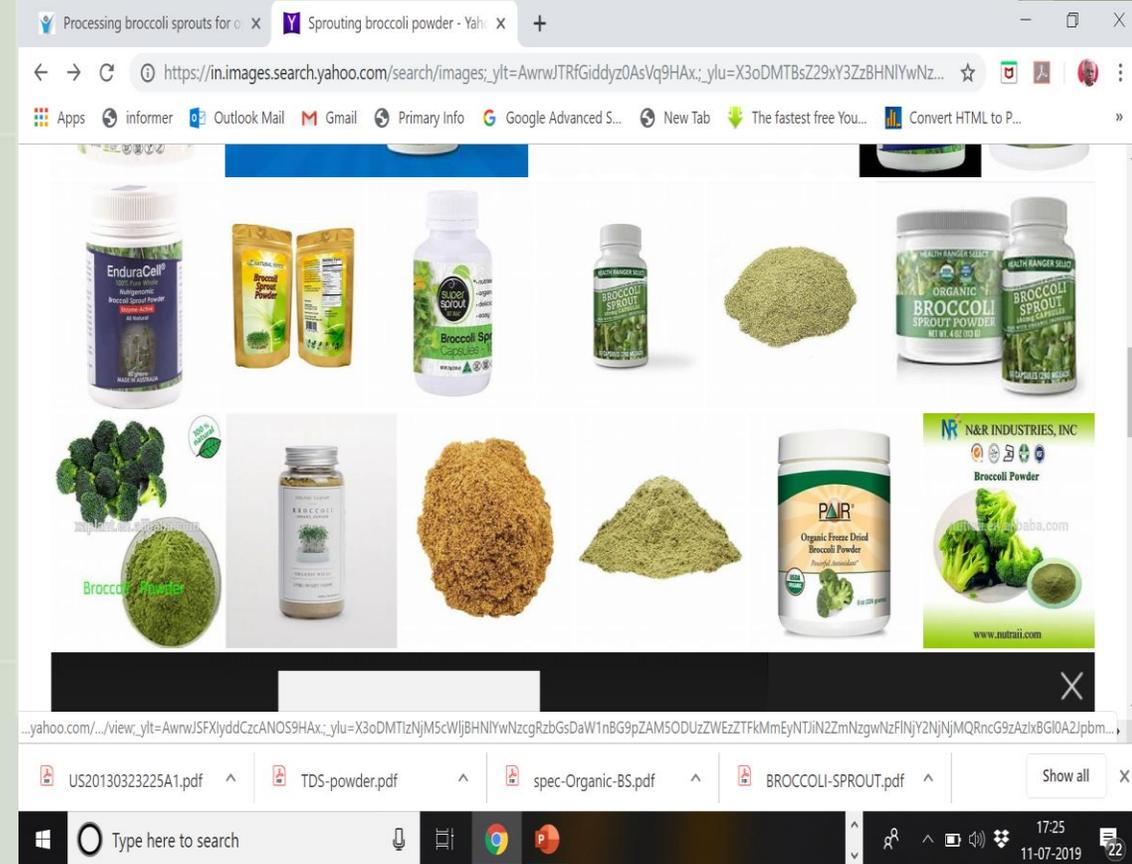
## Company Certification

Our company's products have passed CE, ISO, HACCP, HALAL test, we can provide you with high quality products.



# Sprout Powder

A nutritional supplement is provided containing two broccoli based components that are combined and, when ingested, react in the intestines to provide sulforaphane. The broccoli components are treated separately using supercritical fluid extraction to remove oils. The temperature and pressure of the supercritical extraction processes are controlled to provide broccoli components having the desired properties for the nutritional supplement.





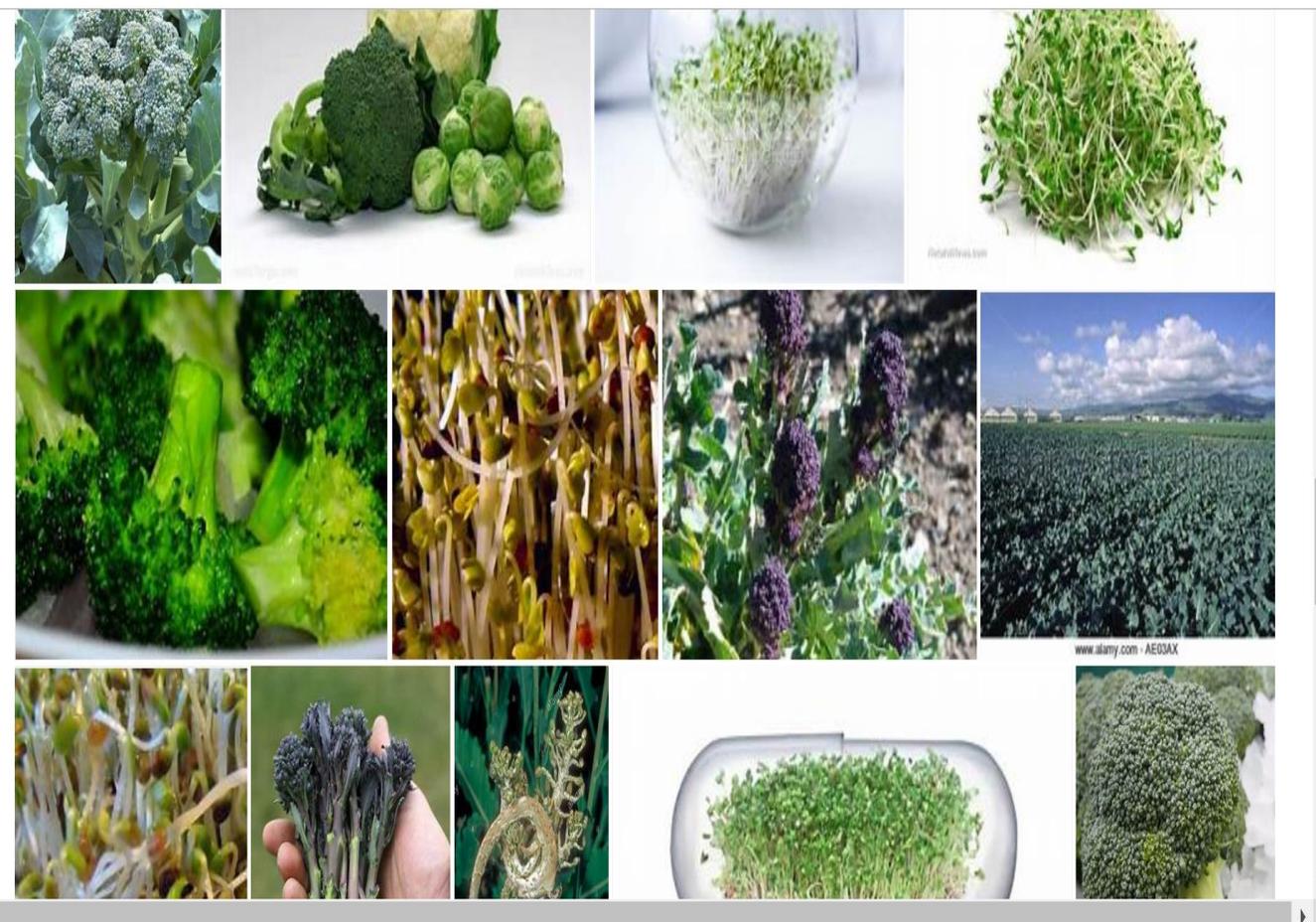
# Broccoli Extract Market

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## Global Market Study on Broccoli Extract: Seed Extract Product Type to Exhibit Relatively High Market Attractiveness Index During 2017 - 2027

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