Fried Corned Beef with Ceylon Spinach (Source: Mga Lutuing Katutubong Gulay)



Ingredients

1 can of corned beef 4 cloves of garlic 1 medium onion, sliced 1/4 kg Ceylon spinach 1/4 tsp black pepper 1/2 tsp salt cooking oil

Procedure

- Fry corned beef with garlic and onion.
- Add Ceylon spinach.
- Add salt and pepper according to taste.
- Cook until meat is done, serve it hot.

Other ways of food preparation

- Ceylon spinach is mainly grown for its young shoots, which are eaten raw as a salad, boiled, or fried in oil.
- Shoots are used as a pot herb in stews or soups. Do not cook too long to prevent from becoming "slippery soup".
- Leaves and young shoots boiled with ginger, tomato, onions, and shrimp or thin slices of beef (Philippines).
- Leaves and young shoots are used in salads or steamed with tofu and ginger.
- · Leaves used in curries.
- It makes a good substitute for okra as a thickener for soups and stews.

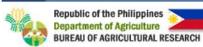
- An infusion of the leaves is used as a substitute for tea.
- A red dye from the fruits is used as a food coloring in pastries and sweets and to color agar.
- The juice is also a source of edible agar.

Know Your IVs











Ceylon spinach

Introduction

Ceylon spinach or *Basella alba* is a short-lived but productive leafy vegetable in the tropics. Its resistance to pests and diseases makes it very promising for small-scale production in home- and market gardens.

Local Name

English — Ceylon spinach, Indian spinach,
Malabar nightshade, Malabar
spinach

Bangladesh — puishak, sabuj, Poi sag, Poi, Baniai

Cambodia — chrâlong Chinese — saan choi

French — poi

Indonesia — gandola, genjerot

India — *brides*

Laos — pang

Malaysia — gendola, remayong, tembayung

Philippines — alugbati, dundula, libato

Thailand — phakpang, phakplang

phakplang-yai, phak-plung

 $\label{eq:vietnam} Vietnam - m[oof]ng \ t[ow]i, \ m[uf]ng \ t[ow]i$

Biodiversity

The exact origin of Ceylon spinach is unknown but it is considered a native of India. It was long cultivated in Southeast Asia and China, and is now widespread throughout tropical Asia, Africa and America. It is a popular vegetable in Malaysia and the Philippines.

There are three main types. The common type has dark-green egg-shaped leaves. The less popular, ornamental type has red egg-shaped leaves and red stems (sometime called by its synonym, B. rubra). The third type has heart-shaped dark green leaves (Anredera cordifolia or Madeira vine).

- Leaves egg to heart-shaped
- Petioles dark green or purple
- Flowers white, pink or purple

Ceylon spinach is a fast growing, herbaceous perennial with slender, twining stems that reach up to 6 m. Its very small flowers, which are borne on a hanging



spike, develop into purplish-black fruits that contain a single seed. Leaves are said to have a mild, pleasant flavor, much like that of spinach.

Cultivation

- Plant by direct seeding, transplanting or using stem cuttings of 20-25 cm in length.
- Suggested spacing

<u>Direct seeding:</u> 5 cm between hills in the row; 10-15 cm between rows

<u>Transplanting:</u> 15 cm between plants in the row; 10-15 cm between rows

Stem cuttings: 20-30 cm between hills with 2-3 cuttings per hills; 15-20 cm between rows

- Plants maybe grown with or without trellis.
- Plants are ready for harvest in 30-45 days.
- Harvest once over or pick young shoots at weekly interval.

Nutritional value

Table below shows the nutritive value of edible portion of shoots per 100g.

Water	91 g
Protein	2.1 g
Fat	0.3 g
Carbohydrates	3.9 g
Fiber	1.3 g
Vitamin A	1686-6390 IU
Vitamin C	29-166 mg
Calcium	16-117 mg
Iron	1.2-3.1 mg
Antioxidant of red Basella (by ABTSM) water	71 µm/g (Medium)
Antioxidant of green Basella (by ABTSM) water	71 µm/q (Medium)

Utilization

- Juice from the fruits used as a dye. This red dye is used for official seals, as ink, and as a rouge (China).
- Used to allay fever and as a mild laxative for pregnant women.
- A decoction from the plant is used to alleviate labor pains.
- Boiled leaves are used as a poultice.
- Flower spikes sold as vegetable in markets in northern Thailand.
- Flowers have been reported as antidote to poisons.
- Fruit juice is used as eye-drops in the treatment of conjunctivitis. used to soothe inflamed skin, and relieve urinary disorders and constipation.
- The roots are used as a rubefacient to bring about redness of the skin (Philippines).
- Cooked roots are used to cure diarrhea, while cooked leaves and stems are used as a laxative.
- The red types of Ceylon spinach are very popular ornamentals and are grown as a pot plant (Europe).

References

AVRDC Vegetable Genetic Resources Information System (AVGRIS). 2005. AVRDC-The World Vegetable Center, Shanhua, Tainan, Taiwan. Website: http://203.64.245.173/avqris/

"Basella alba." Plants for a Future-Species Database. 20 October 2002. Plants for a Future. 3 November 2004 http://www.scs.leeds.ac.uk/cgibin/pfaf/arr_html?Basella+alba&CAN=COMIND>

"Basella alba L.-Ceylon spinach." <u>Tropilab</u>. Tropilab Inc. 3 November 2004 http://www.tropilab.com/bas.html

Freedman, R.L. "Basellaceae." Famine Foods Database. 22 January 1998. Purdue University. 4 November 2004 http://www.hort.purdue.edu/newcrop/famine foods/ff_families/BASELLACEAE.html>

Facciola, S. 1990. Cornucopia, A Source Book of Edible Plants.

Indigenous Vegetables of Southeast Asia. AVRDC— The World Vegetables Center. http://203.64.245.173/sea_iv/

Palada M. C. and L. C. Chang. 2003. Suggested Cultural Practices for Basella. International Cooperator's Guide, May 2003. AVRDC pub# 03-553.

Siemonsma, J.S. and Kasem Piluek (eds.). 1993. PROSEA 8: Vegetables. The Netherlands: Pudoc, Wageningen. 1994. 412 p.

Yang Ray-Yu, Samson CS Tsou, Tung-Ching Lee, Wan-Jan Wu, Peter M Hanson, George Kuo, Liwayway M Engle and Po-Yung Lai, Distribution of 127 edible plant species for antioxidant activities by two assays. J Sci Food Agric 86:2395-2403. 2006.