Purple Antioxidant Potatoes Purple-fleshed sweet potato (high in antioxidants)

Sustain Your Health with Purple Potato

The Purple-fleshed sweet potatoes (PFSP) is a sweet potato variety with purple-colored flesh. These PFSP varieties are characterized by their high levels of anthocyanins, a type of flavonoid that imparts the purple color and contributes to their antioxidant properties.

This technology is TAAT1 validated.

8·8 Scaling readiness: idea maturity: 8/9; level of use: 8/9

Cost: $$$ **20 USD**

A bag of 10 Kg of sweet potato vines

ROI: $$$ **30 %**

Increase in better health

IP

Open source / open access

Problem

- Vitamin deficiencies are widespread in subsistence farming and poor communities
- People in these communities face health risks related to heart disease and cancer
- There is a need to address dietary imbalances in these communities.

Solution

- PFSP varieties have two to three times more antioxidant activity compared to white or yellow sweet potatoes.
- The high levels of antioxidants in PFSP contribute to the body's growth, immune system, and brain activity.
- Residues from PFSP, such as vines, peels, and deformed tubers, can be repurposed into silage, providing nutritious fodder for ruminants and pigs.
- PFSP varieties are rich in potassium, fiber, vitamin C, and vitamin B6

Key points to design your business plan

This technology appeals to seed multipliers and farmers.

- Seed multipliers can efficiently propagate Purple-fleshed sweet potato (PFSP) vines without needing a license, targeting wholesale distributors and various organizations as potential customers.
- Farmers benefit from using PFSP, needing reliable sellers of PFSP vines to access the technology. They should estimate the profit potential of incorporating PFSP into their farming practices.

Gender assessment 4

Climate impact 7

International Potato Center (CIP)

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Technology from

ProPAS

Commodities

Sweet Potato

Sustainable Development Goals

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

Categories

Production, Improved varieties, Quality improvement

Best used with

- Community-based multiplication of sweet potato vines and cuttings ›
- Tent-style greenhouse for multiplication of sweet potato vines and cuttings ›
- Raised beds for sweet potato production and weed management ›
- Specialty blended fertilizers for root and tuber crops ›
- Relay intercropping of sweet potato with legumes ›
- Silage production from sweet potato vines and tubers ›

Tested/adopted in