Technical Sheet of *Irvingia gabonensis* Seeds Preparation in Ivory Coast

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Abstract

The Seed of Irvingia gabonensis is a traditional vegetable, non-timber forest product (NTFP) much consumed by some populations of the forest regions in Ivory Coast. It is rich in essential nutrients (protein, fat, etc.) and minerals (Ca, K) which are important nutritional supplements to the diet often starchy (Foutou banana, yam Foutou, Placali, Foutou cassava etc.) of these populations.

**Keywords:** *Irvingia gabonensis*, seed, nutrients, minerals, non-timber forest products.

1. Introduction

*Photo 1: Tree of Irvingia (1)*
The Irvingia or wild mango is a large tree up to 40 m high, which is mainly found in tropical forests of Central and Western Africa (2) (3). The very fruitful tree can produce several hundred kilograms of fruit per year. The fruit is a drupe similar to a mango. The nucleus contains a single flattened seed. The fruits have a high variability depending on its origin: they weigh between 45 and 195 g contain a kernel of 0.5 to 7g and have very different taste qualities numerous work ethno botany characters (3) Emphasize the importance and value that indigenous populations of these regions give its fruit and especially its kernel which more than 60%, contains a dietary fat that may have industrial uses margarine in soap.

2. Material and methods

2.1. Vegetable material

Dried Irvingia gabonensis seeds and some ingredients (dried fish or dried meat, mushroom, vegetable oil, and various condiments) were purchased on the market in Abidjan (Ivory Coast). All these crops will be used to prepare a traditional sauce made with Irvingia seeds. (Fig.1)
2.2. Preparation

Seeds of Irvingia
↓
Trimming
↓
Washing
↓
Dry
↓
Grinding
↓
Irvingia gabonensis Seeds paste

Figure 2: Preparation of Irvingia gabonensis Seeds paste

In a cooking pot to fire I add oil, onion and a pinch of salt, then I add the dried animal protein (meat or fish), fresh pepper, water and vegetables Volvariella volvaceae previously soaked in water to delineate any sand. Allow the mixture to sauce when the sauce tends to his cooking, add the seasoning, the diced onion and then leave cooked sauce. Removed peppers and crush then reverse the batter into the sauce. Allow a few minutes of cooking. Cooked animal proteins are removed with a little sauce, and I added the paste Irvingia gabonensis (Fig.2) in the remaining hot sauce that will lead to making the sauce Irvingia was mixed with animal protein with the juice collected for firing a few minutes. It is preferable to eat this sauce with the traditional dishes: banana Foutou, yam Foutou, cassava Foutou, Placali or rice,

Mushroom Volvariella volvaceae
↓
Trimming
↓
Washing
↓ ← (Ingredient: dry fish or dry meat, etc.)
Precooking in Water
↓ ← (Irvingia gabonensis Seeds paste and Condiment)
Cooking
↓
Seeds of Irvingia gabonensis Sauce

Figure 1: Preparation of Irvingia gabonensis Seeds Sauce

3. Results and Discussion

The traditional Irvingia Seed sauce (Photo 6) is usually prepared by the method described above (Figure 2). It has a thick and viscous greater or lesser degree depending on whether the amount of paste of Irvingia added to the broth mushroom Volvariella Volvaceae is higher or lower consistency. The nutritional composition of this sauce analyzed (5); (5) in relation to the nutrient content of Irvingia seeds contain a significant protein content of about 5.83 - 7.23 % dry mater and fat 63.61 to 65.84% d. m with a small amount of carbohydrates (23, 00 % d.m) (5); (6); (7). Energy intake of Irvingia Seeds in this preparation (Figure 1) would be in the order of 707.68 cal /100 g d.m (5).
This sauce is also rich in minerals. Including macro elements calcium (0.452% d.m) and Potassium: 0.678% d.m (5); (6); With a low content of trace elements such as iron, copper and manganese in a ratio <1% The seed of Irvingia (Photo.3) is a traditional vegetable, non-timber forest products much consumed by some populations of
the forest regions in Ivory Coast. It has a remarkable nutritional composition providing vegetable protein intake (8) in the diet of people based starch (Foutou banana, Foutou yam, Placali, Foutou cassava, etc.).

Conclusion

The traditional Irvingia gabonensis Seed sauce is high in protein, fat and minerals (Ca, K). It provides its composition (nutrients and minerals) a remarkable nutritional value and consistent with the diet of many people. These Seeds are an important nutritional supplement (lipids, proteins, minerals).

References


