

5 Known prior art disclosed in publication number CN102742857A,
Technology for processing formaldehyde-free. The invention belongs to the
field of food processing and discloses technology for processing a
formaldehyde-free and benzo(alpha)pyrene-free smoked meat product. The
technology comprises the following steps of 1, raw material selection and
10 pretreatment; 2, pickling liquid preparation and pickling; 3, washing and drying
in air; 4, pre-heating, drying, and smoking; and 5, heat dissipation, vacuum
packaging, labeling, and warehousing. Technology employs a sectional-type
baking method, enhancing product quality and resolving issues such as
scabbing, drying, and hardening on meat product surfaces commonly caused
15 by traditional methods. Due to these observations, it shows the use of meat but
does not disclose smoked fish and malunggay powder as ingredients in
noodles, nor the substitution.

Another known prior art disclosed in publication number
CN107692029A , Moringa oleifera noodles and preparation method. The
20 invention provides moringa oleifera noodles and a preparation method thereof.
The method solves the problem that noodle varieties in the prior art have low
nutritional value, and cannot improve the immunity of the human body.
The moringa oleifera noodles comprise the following raw materials in parts by
weight: 20-30 parts of moringa oleifera, 45-55 parts of wheat flour, 6-12 parts
25 of eggs, 0.1-0.3part of edible alkali, 1-3 parts of alanine aminotransferase, 2-3
parts of edible salt, 4-6 parts of white sugar and 20-30 parts of water. A raw
material of the moringa oleifera with high nutritive value can strengthen the
physique and has the efficacy of regulating the immunity of human bodies. In
the preparation process of the invention, a double-shaft horizontal dough
30 kneading machine is adopted in the dough kneading process, and dough
kneading is carried out under a vacuum condition. The prior presents moringa
oleifera noodles. The method solves the problem that noodle varieties in the
prior art have low nutritional value. It shows the process of making the moringa
oleifera noodles, but does not include making the smoked fish powder to extend
35 the shelf life of the smoked fish and moringa oleifera powder as a substitute.

5 Through this initiative, the utility model considered creating and innovating new value-added noodles with a distinct feature by incorporating the tinapa and malunggay powder. The concept of the utility model is to develop unique and nutritious noodles that can be prepared without the addition of meat because it already have a source of protein incorporated in the processing of
10 the noodles. Since the noodles are mixed with smoked fish or tinapa, it can already be accepted by young people and adults. The finished product is assured to be nutritious and affordable for every Filipino, especially those who belong to the marginalized group.

15 **Summary of the Utility Model**

The primary object of the present utility model is to provide a noodle enhanced with smoked fish (tinapa) and Malunggay (*Moringa oleifera*) as one of its ingredients. These smoked fish (tinapa) and malunggay (*Moringa oleifera*) noodles are another variation of commercial noodles existing in the market,
20 which can be cooked and served.

Another object of the present utility model is to provide a new fortified noodle made from smoked fish (tinapa), which contains nutrients such as protein, fat, vitamins and minerals, and sodium.

25 Still, an object of the present utility model is to provide nutritious and affordable smoked fish(Tinapa)-Malunggay (*Moringa Oleifera*) noodles.

Detailed Description

Having known the different products that can be derived from Smoked Fish, locally known as Tinapa, the following are the method and composition of
30 Tinapa-Malunggay Noodles.

The process of producing smoked fish (Tinapa) and malunggay (*Moringa oliefera*) noodles is as easy as described. Deboning and flaking

5 smoked fish (Tinapa), and sun drying the smoked fish (Tinapa), powdering the
 smoked fish (Tinapa) using food processors, removing the Malunggay (*Moringa*
Oliefera) from the steam and spreading it out in a tray, sun drying the
 malunggay to become powderized. It also includes sifting both the smoked fish
 (Tinapa) and malunggay to produce a fine texture comparable to flour,
 10 measuring and combining the smoked fish(tinapa), malunggay, all-purpose
 flour, water, oil, egg, garlic powder, onion powder, and black pepper to form a
 dough, kneading the dough for 10-15 minutes, flattening the dough by using a
 noodle maker machine, cutting the flattened dough into strands of preferred
 shapes and sizes, Boiling water for 10 minutes and draining in a colander, and
 15 Oven-drying the dough for an hour to form noodle strands.

The composition of noodles enhanced smoked fish (Tinapa) and moringa oleifera, comprising the following ingredients:

10% smoked fish (tinapa), 10% Malunggay (*Moringa oliefera*), 73.33%
 all-purpose flour, 40% water, 7.3%oil, 16.66% egg, 3.66% garlic powder, 3.66%
 20 onion powder and 2% black pepper.

Ingredients	Formulation in Grams	Formulation in % by weight
Smoked Fish (Tinapa)	30 g	6%
Moringa oleifera powder	30 g	6%
All-purpose flour	220 g	44%
Water	120 g	24%
Oil	22 g	4.4%
Egg	50 g	10%

Garlic powder	11 g	2.2%
Onion powder	11 g	2.2%
Black pepper	6 g	1.2%

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The process of producing noodles enhanced with smoked fish(Tinapa) comprises the steps of preparing the tinapa into powder, which starts from deboning, flaking, drying, and powdering. Likewise, the malunggay was removed from the stem and spread out in a tray, then dried. After it had dried, 10 it was pounded using the mortar and pestle. Both the tinapa and malunggay were sifted through a fine mesh to produce a fine texture comparable to flour.

After all the ingredients had been measured, the set of ingredients was mixed and formed into a dough, and it was kneaded for 10 minutes, and it passed through the noodle maker to be furtherly kneaded, then cut into the 15 desired shapes of strands. The shaped noodles were blanched in boiling water for 10 minutes, drained in a colander, then put in a tray, and then dried in an oven for an hour.

Proximate Composition of Tinapa- Malunggay Noodles (300 grams)

Parameters	Results
Protein	12.97%
Total Fat	1.65%
Ash	1.06%

Parameters	Results
Total Carbohydrate	71.11%
Moisture	13.21%
Crude Fiber	0.7%

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Smoked fish (Tinapa) enhances its flavor and provides a nutritious, protein-rich food source. The present utility model has undergone the proximate compositions of Tinapa Malunggay Noodles. The present utility model has a proximate composition of 12.97% Protein, 1.65% Total Fat, 1.06% Ash, 71.11% Carbohydrate, 13.21% Moisture, 0.7% Crude Fiber per 300 grams.

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