

APPENDIX

Appendix 1. Calculation of Nutrition Facts Edible package

Nutrition listed for the sweet potato starch is per 100 gram

For one edible package, we only need 3 gram of sweet potato starch

It means 100 gram sweet potato starch can make 20 edible packages

Table 6. Nutrition Calculation

	In 100g Sweet Potato Starch	Nutrition per Edible Package (Nutrition in 100g : 20)
Protein	2.8 g	0.14 g
Fat	0.6 g	0.03 g
Carbohydrate	84.4 g	4,22 g
Fiber	12.9 g	0.645 g
Calcium	89 mg	4.45 mg
Phosphor	125 mg	6,25 mg
Zinc	0.6 mg	0.03 mg
Sodium	42 mg	2.1 mg
Potassium	940.0 mg	47 mg
Copper	0.80 mg	0.04 mg
Iron	3.9 mg	0.195 mg
Carotenes	-	-
Water	9.4 g	0.47 g
Vitamin B1	0.40 mg	0.02 mg
Vitamin B2	0.02 mg	0.001 mg

Appendix 2. Packaging Design



Picture 23. Packaging Front Side



Picture 24. Packaging Left Side



Picture 25. Packaging Back Side



Picture 26. Packaging Top Side

Appendix 3. Product Logo



Picture 27. Product Logo



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TITLE : Edible Sweet Potato Package For Taro Drink

INGREDIENTS :

For Homemade Sweet Potato Starch

- 1 Sweet Potato
- 500 ml water

For Edible Sweet Potato Package

- 15 gram Homemade Sweet Potato Starch
- 350 ml water
- 2 ml glycerin

Instant Taro Powder Drink

STEPS :

For Homemade Sweet Potato Starch








1. Grate the raw sweet potato until it forms a rough porridge
2. Add water to the grated sweet potato
3. Strain with cheese cloth until the grated sweet potato dried
4. Let the strained sweet potato water for 3-5 hours
5. Throw away the water on top and take the lower part which has mushy texture
6. Dry it under the sun and then sieve for smooth starch result

For The Edible Sweet Potato Package

1. In a pot, combine all ingredients for the edible sweet potato package.
2. Place pot on high heat and stir until it comes to boil. The liquid will quickly turn into a gooey opaque texture
3. Pour into a nonstick baking sheet and let it dry out in room temperature
4. Carefully peel of the skin and cut into small square pieces
5. Lay down a towel and a piece of parchment paper. On top of parchment paper, place a sheet of edible sweet potato package. Fold it in half but do not crease
6. Fold over the parchment paper and iron the ends. This will melt and stick the edges (make sure there are no air bubbles in the sides that are melted together)
7. Fill in the package with the taro powder drink
8. Seal the other edges with the iron once again
9. The edible sweet potato package for taro drink is ready to be consumed.

APPROVAL BY ADVISOR DATE: 21-5-2019 ARALIA N.P.	APPROVAL BY LIBRARIAN DATE: 22 May 2019 Sekar	APPROVAL BY DIRECTOR ACADEMY DATE: RED PROJECT APPROVED! (A New Product)
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No	Date	Topic Consultation	Name/ Signature
1.	10/05/2019	Acc produk	
2.	21/05/2019	Konsultasi produk	
3.	10/06/2019	Laporan bab 1	
4.	29/08/2019	Revisi bab 1 : background & objectives	
5.	5/08/2019	revisi bab 2	
6.	9/08/2019	revisi II bab 2	
7.	12/07/2019	revisi bab 3 : flowchart	

No	Date	Topic Consultation	Name/ Signature
8.	19/07/2019	revisi bab 4 : nutrition facts	
9.	22/07/2019	revisi cost calculation	
10.	26/07/2019	Laporan bab 1-6	
11.	28/07/2019	Revisi cover : Acknowledgement executive Summary	
12.	31/07/2019	revisi appendix , logo, packaging	
13.	01/08/2019	acc logo, packaging	
14.	02/08/2019	acc final report	

Research and Development Final Project

Terra

Edible Sweet Potato Package

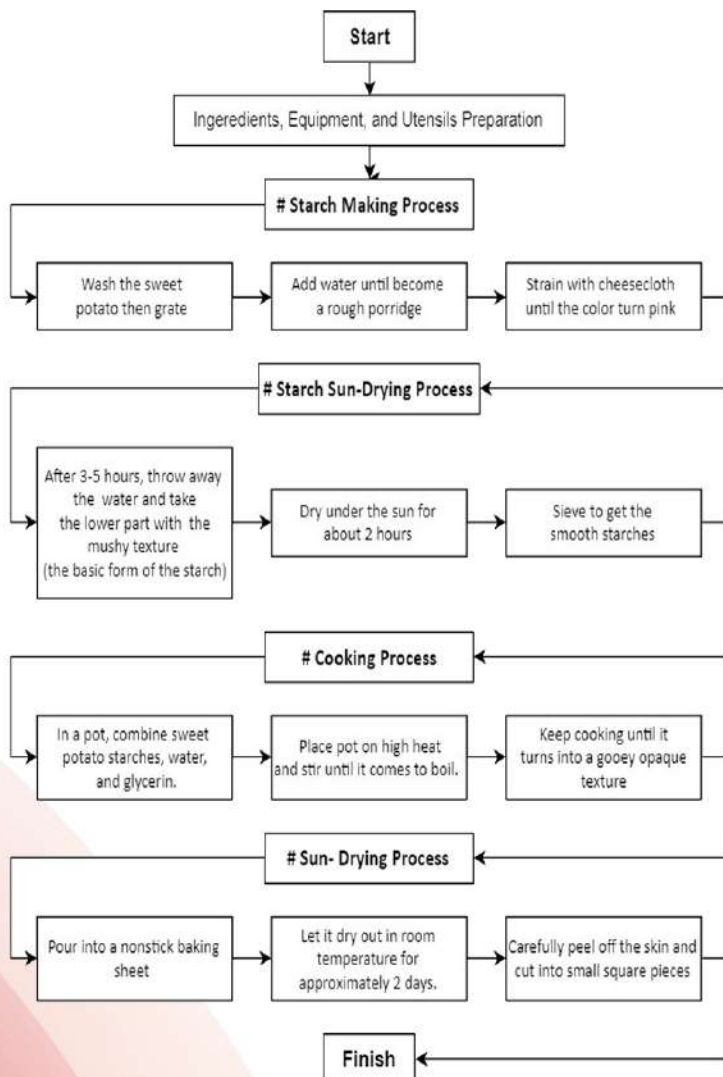
By: Patricia Adeline



ABSTRACT

Terra is an edible package made of sweet potato starch. Terra takes away the plastic and paper waste that's created from food packaging and can be safely consumed with the food product inside it. Our focus is to create a new product from food industry that is environment friendly.

FLOWCHART



NUTRITION FACT

Serving Size 10 g	Fat	0,03 g	Zinc	0,03 mg
Amount per Serving	Carb	4,22 g	Sodium	2,1 mg
Calories 17,71	Protein	0,14 g	Pottasium	47 mg
	Fiber	0,65 g	Copper	0,04 mg
	Calcium	4,45 mg	Iron	0,2 mg
	Phospor	6,25 mg	VA B1	0,02 mg
			B2	0,001 mg

BACKGROUND

There are so many waste that come from food industry. This condition makes people start to care about environment by reducing the use of plastic and paper as food packages. That is why Terra takes this opportunity to sell the edible package.

CONCLUSION

After doing several experiments, we find out that there is no expired date for Terra. So as long as it is stored properly, it can be used for long period of time. The price of Terra is Rp.13.000/ pack. One pack consist of 10 round packages.

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