

BIBLIOGRAPHY

- Etika M, N. M. (2021, April 19). *Xanthan Gum, Zat Pengental yang Kaya Manfaat*. Hello Sehat. Retrieved October 20, 2022, from <https://hellosehat.com/nutrisi/fakta-gizi/xanthan-gum-adalah/>
- Fuji, N. (2020, October 21). *Mengenal Manfaat Uwi untuk Kesehatan, Pengganti Nasi Bagi Penderita Diabetes*. merdeka.com. Retrieved October 20, 2022, from <https://www.merdeka.com/jabar/mengenal-manfaat-uwi-untuk-kesehatan-pengganti-nasi-bagi-penderita-diabetes-klm.html>
- Indonesia, F. (2017, September 29). *Ini Bedanya Ekstrak Vanili, Essens Vanili, dan Bubuk Vanili*. femina.co.id. Retrieved October 20, 2022, from <https://www.femina.co.id/tip-masak/ini-bedanya-ekstrak-vanili-essens-vanili-dan-bubuk-vanili->
- Kusumaningrum, F. D. (2017, April 12). *4 Rahasia berbahaya tentang tepung terigu yang wajib kamu tahu*. merdeka.com. Retrieved October 20, 2022, from <https://www.merdeka.com/sehat/4-rahasia-berbahaya-tentang-tepung-terigu-yang-wajib-kamu-tahu.html>
- Kusumawati, A. (2020, August 27). *7 Efek Samping Gluten Jika Dikonsumsi secara Berlebihan, Waspada!* theAsianparent: Situs Parenting Terbaik Di Indonesia. Retrieved October 20, 2022, from <https://id.theasianparent.com/efek-samping-gluten>
- Mikayla, C. (2019, January 17). *Apa itu TBM, SP, BP Fermipan Beserta Fungsinya Untuk Kue?* Retrieved October 20, 2022, from <https://www.wajibbaca.com/2019/01/apa-itu-tbm-sp-bp-fermipan-beserta.html>
- Oktaviani, N. (2020, November 5). *6 Manfaat Uwi Bagi Kesehatan dan Tips Konsumsinya* -. IDN Medis. Retrieved October 20, 2022, from <https://idnmedis.com/manfaat-uwi>
- Pratiwi, N. (n.d.). *Ragi adalah – Konsep dan arti*. Diulas Oleh Naisha Pratiwi – Adalah.top. Retrieved October 20, 2022, from <https://adalah.top/ragi/index.html>
- Sari, A. N. K. (2021, June 10). *Sayur Bayam : Manfaat, Kandungan Gizi, & Resep*. IT's Buah. Retrieved October 20, 2022, from <https://itsbuah.com/sayur-bayam/>
- Times, I. (2022, October 20). *Mentega, Margarin, Butter, dan Roombutter, Apa Sih Bedanya?* IDN Times. Retrieved October 20, 2022, from <https://www.idntimes.com/food/dining-guide/putriana-cahya/perbedaan-mentega-margarin-butter-dan-roombutter>
- Tirto, E. (2017, February 16). *Baking Powder, Baking Soda & Fermipan*. Dapur Prima. Retrieved October 20, 2022, from <https://www.dapurprima.com/2012/06/baking-powder-vs-baking-soda/>
- KARAKTERISTIK TEPUNG PREBIOTIK UMBI UWI (Dioscorea spp) | Winarti / Jurnal Teknik Kimia*. (2017, October 4). Retrieved October 20, 2022, from <http://www.ejournal.upnjatim.ac.id/index.php/tekkim/article/view/709>

Wiradarma, K. (2018, October 29). *Baik Buruk Stevia, Pemanis Rendah Kalori Pengganti Gula*. KlikDokter. Retrieved October 20, 2022, from <https://www.klikdokter.com/gaya-hidup/diet-nutrisi/baik-buruk-stevia-pemanis-rendah-kalori-pengganti-gula>

Informasi Lengkap Tentang Tanaman Bayam Yang Penting. (2022, August 22). Tanah Kaya. Retrieved October 20, 2022, from <https://tanahkaya.com/bayam/>

APPENDIX

APPENDIX 1. PACKAGING DESIGN



FIGURE 1. LOGO



Figure 2. packaging design

APPENDIX 2 SUPPLIER LIST

1. Umbi Uwi

Umbi uwi is from market place (shopee) the name is Toko Nawa12, located at Tuban

2. Stevia

Stevia is from market place (shopee) the name is Hay. Jubaju, Located at Sidoarjo

3. Eggs

Eggs is from pasar citraland, located at Jl. Taman Puspa Raya, Made, Kec. Sambikerep, Kota SBY, Jawa Timur 60217

4. Margarin

Margarin is from pasar citraland, located at Jl. Taman Puspa Raya, Made, Kec. Sambikerep, Kota SBY, Jawa Timur 60217

5. Vanilla Essence

Vanilla essence is from pasar citraland, located at Jl. Taman Puspa Raya, Made, Kec. Sambikerep, Kota SBY, Jawa Timur 60217

6. Baking Powder

Baking powder is from pasar citraland, located at Jl. Taman Puspa Raya, Made, Kec. Sambikerep, Kota SBY, Jawa Timur 60217

7. TBM

TBM powder is from pasar citraland, located at Jl. Taman Puspa Raya, Made, Kec. Sambikerep, Kota SBY, Jawa Timur 60217

8. Xantan gam

Xantan gam is from market place (shopee) the name is Le Kimchi, Located at Surabaya.

9. Plastic packaging

Plastic packaging are from Tobaku, located in Jl. Raya Dukuh kupang No. 57 A, Pakis, kec. Dukuhpakis, kota SBY, Jawa Timur 60225

10. Box packaging

Box packaging from Tobaku, located in Jl. Raya Dukuh kupang No. 57 A, Pakis, kec. Dukuhpakis, kota SBY, Jawa Timur 60225

11. Alumunium cup

Alumunium cup from Tobaku, located in Jl. Raya Dukuh kupang No. 57 A, Pakis, kec. Dukuhpakis, kota SBY, Jawa Timur 60225

12. Paper cup

Paper cup from Tobaku, located in Jl. Raya Dukuh kupang No. 57 A, Pakis, kec. Dukuhpakis, kota SBY, Jawa Timur 60225

13. Stickers

The stickers are from Metropolis digital printing Surabaya, located in G-walk jalan ruko taman gapura blok A No. 8, Lontar, kec. Sambikerep, Kota SBY, Jawa Timur 60217

APPROVED RECIPE

Recipe name : bolu kukus

Yield : 5 - 10 portion

Main ingredients : 250 gr umbi uwi flour

Ingredients :

- 250 gr umbi uwi flour
- 150 gr spinach
- 250 gr stevia
- 4 eggs
- 200 gr butter
- 10 ml vanili
- 1 tsp baking powder
- 1 tsp tbm
- 30 gr xantan gum

Method :

- first clean the umbi uwi then cut it into small pieces and then put it in a dehydrator for 2 days, after 2 days puree it with a blender
- both wash and clean the spinach, then boil the spinach for 1 minute then put it in the oven at 150 ° for 10-15 minutes then puree with a blender
- third mixer eggs and stevia until well blended and fluffy
- Fourth, enter the uwi tuber flour, spinach powder, vanilla, baking powder, xantan gum and TBM and mix well using a spatula
- Fifth, add the melted butter and mix again until smooth
- prepare a baking sheet / mold that has been spread with butter then enter the dough and steam for about 30 minutes.
- After 30 minutes take the steamed sponge and it's ready to be served

Student name : shinta khurniawan

Advisor name : chef yohana prasetio

Date & time of submission : 12/4/21 (11.00)

Recipe background :

from ancient times until now, people really like Indonesian wet foods such as cucur cakes, nagasaki, cupcakes, steamed sponge cake and many more. Many people do not know that wet foods, one of which is steamed sponge cake, has a lot of calories and if we consume it continuously it is not good for health. Therefore, steamed cakes are made with flour substitute ingredients, namely with umbi flour and also with stevia so that they are lower in calories and also healthier.

APPROVAL TABLE (filled by advisor)


| CHECK LIST | POINTS | APPROVAL |
|--------------------|--------|-----------|
| WASTE MANAGEMENT | 20 | x |
| PROCESSING METHOD | 20 | ✓ |
| UNIQUE INGREDIENTS | 20 | ✓ |
| PRODUCT OUTLOOK | 20 | x |
| HEALTH & NUTRITION | 15 | ✓ |
| NEW MODIFICATION | 5 | ✓ |
| TOTAL | | 60 |

*approval min. 50 points

Notes :

Figure 3. Approved recipe

SENSORY ANALYSIS

 **Akademi Kuliner & Pastry**
OTTIMMO
INTERNASIONAL

**CULINARY INNOVATION AND NEW
PRODUCT DEVELOPMENT
SENSORY TEST**

DATE : 20 May 2022
NAME : Shinta Khurniawan
NIM : 2074130010057
PRODUCT : Bolu kukus umbi uwi
ADVISOR : Yohanna Prasetyo, S.Sn., A.Md.Par.

| PANELIST | SIGHT | SMELL | TEXTURE | TASTE | TOTAL |
|-------------|-------|-------|---------|-------|-------|
| Panelist 1 | √ | √ | √ | X | √ |
| Panelist 2 | X | X | X | X | X |
| Panelist 3 | √ | √ | √ | X | √ |
| Panelist 4 | X | X | √ | X | X |
| Panelist 5 | √ | √ | √ | X | √ |
| Panelist 6 | X | X | X | X | X |
| Panelist 7 | √ | √ | X | X | X |
| Panelist 8 | √ | √ | √ | X | √ |
| Panelist 9 | √ | √ | √ | X | √ |
| Panelist 10 | √ | √ | √ | X | √ |

NOTES :

- Tasteless. Terlalu kenyal
- Terlampaui sangat pahit
- Rasa pahitnya bisa dihilangkan dengan cara pada saat pembuatan memang, irisan umbi ungu bisa difermentasi dengan larutan ragi. Ada aftertaste stevia, takaran stevia bisa dikurangi dan diganti dengan palm sugar atau madu
- Bitter
- Terlalu pahit
- Taste too bitter, need adjusting
- Bitter as hell











Figure 4. sensory analysis

CONSULTATION FORM



Akademik Kalimat & Pictorial
OTTIMO
 INTERNATIONAL
Center for Innovation and Entrepreneurship

CONSULTATION FORM
CLINARIY INNOVATION AND
NEW PRODUCT DEVELOPMENT

| No | Date | Topic Consultation | Name/ Signature |
|----|-------|--|---|
| 1. | 6/4 | Konsul Produk RnD S Strategi Produk RnD |  |
| 2. | 11/10 | Konsul Packaging Produk |  |
| 3. | 12/10 | Forum Resep w/produk |  |
| 4. | 08/10 | Konsul - cara tulis RnD 1-5 |  |
| 5. | 19/10 | Konsul Packaging |  |
| 6. | 18/10 | Konsul Resep |  |

| | |
|----------------|--------------------|
| Name | : Shinta Khumawati |
| Student Number | : 2024130010062 |
| Advisor | : Yohana, Proptia |





| No | Date | Topic Consultation | Name/ Signature |
|-----|-------|---------------------|--|
| 7. | 17/10 | Konsul Packaging |  |
| 8. | 13/10 | Tran + konsul Resep |  |
| 9. | 5/10 | Konsul Resep |  |
| 10. | 21/4 | Konsul Produk |  |

Figure 53. Consultation form