

ENHANCING VITAMIN C CONTENT IN SOAP PRODUCTION VIA USING SUBSEQUENT AMOUNT OF JUICE FROM *PHYLLANTHUS AMBLICA* AND *COSNICIUM BLUMENEUM*

Abstract:

The demand of cosmetic products is rapidly growing, despite majority of them is high in chemical substances and may harm the skin. *Phyllanthus amblica* (Melaka fruit) contains 30 times more Vitamin C compared to oranges while *Cosnium blumeneum* (mengkunyit) helps raise level of Vitamin C in the body. Therefore, looking at potential and benefits, a research has been conducted to produce a bar soap (Amblica Soap) from *Phyllanthus amblica* and *Cosnium blumeneum*. Analyze has been done to determine the Vitamin C, antioxidant level and perception level of respondents towards Amblica Soap. Likert Scale and High Performance Liquid Chromatography (HPLC) was used as the quantitative instrument. A number of 30 respondents were selected based on their locality. Descriptive analysis was used to analyse data collected using SPSS version 19.0. Result confirming the presence of Vitamin C and shows the perception level of respondents towards Amblica Soap is highly positive. In conclusion, Amblica Soap contains Vitamin C and accepted optimistically.

Keyword: *Phyllanthus amblica*, vitamin C, HPLC, Likert scale

IP no: nil

Finding:

Item Assessed	Score Mean	Interpretation Stage	
Acceptance	4.00	High	Good
Colour	3.47	Middle	Middle
Texture	3.80	High	Good
Smell	4.37	High	Good
Slimy	3.67	High	Good
Soft Skin	4.10	High	Good

Overall mean for respondents' acceptance towards Amblica Soap is 3.90 which means it is highly accepted.

The pH value is 9.5 and the vitamin C content is ND<0.1 mg/100g

Suggestion for future work:

Based on the weaknesses, some improvements and improvements need to be taken into account to ensure the vitamin C is presence in the Amblica Soap. Methods in applying heat need to be replaced and alternative procedure is suggested in further experiment.

Picture related to project as shown above.

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COA NO : MBC-2017-CF-0133
TEST ITEM ID : MBC-0200-17
DATE OF ISSUE : 10 March 2017

CERTIFICATE OF ANALYSIS

CUSTOMER : AMBLICA SOAP
POLITEKNIK MERLIMAU, KB 1031, PEJABAT POS
MERLIMAU, 77300 MELAKA.

TEST ITEM DESCRIPTION : ONE (1) SAMPLE IN SOLID FORM

TEST ITEM MARKING : AMBLICA SOAP

DATE OF RECEIPT : 2/3/2017

DATE OF TESTING	TEST PARAMETER	UNIT	TEST METHOD	RESULT	LIMIT
1-Mar-17	**pH (10%)	-	pH meter	9.5	NA
1-Mar-17	*Vitamin C	Mg/100g	AOAC 967.21 & GB 5413.18 - 2010	ND < 0.1	NA

REMARKS:

1. Tested test items are not returnable. Complaint can be made within 14 days from Date of Issue certificate.
2. Tested parameter marked * is Subcontracted and Accredited.
3. Tested parameter marked ** is Subcontracted but Not Accredited.

Verified By:

AISHAH BINTI AZIZ (CHEMIST)
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The results relate to the items tested ONLY. All analysis are carried out to the best of our knowledge and ability and our responsibility is limited to the correctness of the results. Any enquiry, please contact us.





The SKIN You're IN

What is amblica?



known as Indian gooseberry, can be partially attributed to its high vitamin-C content. Malacca fruit enhances food absorption, balances stomach acid, fortifies the liver, nourishes the brain and mental functioning, supports the heart, strengthens the lungs, regulates elimination of free radicals, enhances fertility, helps the urinary system, increases skin health, promotes healthier hair, acts as a body coolant, flushes out toxins, increases vitality, strengthens eyes, improves muscle tone and, acts as an antioxidant

What is mengkunyit?



Coscinium Blumeum (Mengkunyit) used as an effective sinus medication in Malay traditional medicine. This herb can relieve itching on the face, scalp and nose, frequent sneezing and a runny nose, acne on the face, itching in the toenails and hands. It also contains an antibiotic effect against some types of bacteria and fungi

ingredients

- Glycerin base soap,
 - Melaka fruit,
 - Akar mengkunyit,
 - Peppermint essential oil



Small soap :
Rm 20.00
Big soap :
Rm 35.00



BUATAN MALAYSIA



Amblicasoap