



Feasibility of Jackfruit Leaf Powder Mask For Oily Skin

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Abstract

The problem of oily facial skin causes a person's lack of confidence. This can cause acne and other facial skin problems. Therefore, researchers chose a jackfruit leaf mask as a solution because it can remove oil from oily skin and get rid of acne. The aim of the research is to determine the feasibility of Jackfruit Leaf Powder masks to be seen in terms of laboratory tests, organoleptic tests and hedonic tests. This research is an experimental study of jackfruit leaf powder masks. Data collection used the documentation and questionnaire methods prepared with a Likert scale consisting of 7 panelists consisting of 2 lecturers, 2 people from beauty clinics, and 3 students. The data collected was processed using a descriptive analysis formula, the percentage of laboratory test results was Flavonoids contained in jackfruit leaf powder masks, namely 1.27%/100 gram sample.

INTRODUCTION

Everyone can see and judge the physical appearance of other people, especially in every woman, the part of the human body that can attract attention is the face (Vartzopoulos, 2013; Trisnawati, 2016; Sumanty et al., 2018; Small, 2022). Having a smooth and flawless face has always been every woman's dream (Moeran, 2010; Sims, 2012; Zhang, 2012; Rohana, 2014; Putri & Minerva, 2022). McLoughlin, (2013); Maarif et al., (2019); Ulva et al., (2021); Rimbardi et al., (2022) say that a person's attractive and beautiful appearance can be seen from his skin. Many problems that occur in a woman's skin, one of which is oily skin. Oily skin is one that has a high water and oil content. Many women complain about oily facial skin because oily skin reduces a person's self-confidence. Women's desire is to have clean, healthy and radiant facial skin (Ren et al., 2015; Smith et al., 2021; Rahmadani & Minerva, 2022; Jurić et al., 2022).

Based on the results of the interviews that the author conducted with several informants, it turned out that many of the informants felt disturbed by the condition of their oily facial skin. Problems complained of such as blackheads, open facial pores, acne, and the cosmetics used are difficult to stick to the skin of the face, causing a feeling of lack of self-confidence. Overcoming this problem requires special facial skin care for oily faces. Oily skin facial treatment can be done by using a face mask (Sari & Setyowati, 2014; Dwiyantri & Sulandjari, 2017; Ipaki et al., 2021; Salvioni et al., 2021; Bhattacharjee et al., 2022). A mask is a treatment aimed at tightening the tone or resolving power of the skin and treating the skin with ingredients contained in cosmetics, for facial or facial skin care which has the function of providing moisture, stimulating skin cells, remove dirt and horn cells attached to the skin, normalize the skin from acne disorders, black spots and removing excess fat on the skin, preventing, reducing wrinkles and wrinkles.

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perpigmentasi and improve blood circulation (Siregar et al., 2019; Utami et al., 2022).

Khansa, (2019); Azizah & Marwiyah, (2022) explained that there are many uses for masks, especially for tightening the skin, removing horn cells that are ready to peel off, smoothing and brightening the skin, increasing skin cell metabolism, increasing blood and lymph circulation, giving a fresh feeling and providing nutrition to the skin, as well as the skin. Looks bright, smooth, and toned. One of the treatments that can be done is using a jackfruit leaf mask.

Jackfruit leaves contain saponins, flavonoids and tannins. These compounds have for human skin, especially oily skin. The content of flavonoids, saponins and tannins found in jackfruit leaves are efficacious as antioxidants which can smooth the skin, moisturize the skin, keep the skin soft so that the skin looks young and fresh (Nasution et al., 2014; Lovena et al., 2021). Given the advantages of jackfruit leaves, the researchers wanted to use potato starch in making masks, which was seen from the feasibility of going through laboratory tests, organoleptic tests (texture, aroma, and stickiness), hedonic tests (panelist preferences) (Lovena et al., 2021; Ambarwati et al., 2021; Lailiyah et al., 2021; Dewita & Rahmiati, 2022).

METHODS

This study uses a type of quantitative research with an experimental approach (Efendi et al., 2019; Fauziah et al., 2020; Syafril et al., 2021; Hasan et al., 2022; Munawaroh et al., 2022). Experimental research was carried out on the Flavonoids contained in the jackfruit leaf powder mask and to determine the feasibility of the jackfruit leaf powder mask seen from the aroma, texture, panelist preferences and stickiness. The object of research is potatoes used as a natural mask in the form of flour. The research variables consisted of the independent variable (X), namely the jackfruit leaf powder mask, while the dependent variable (Y), namely the content contained in the jackfruit leaf powder mask and organoleptic and hedonic tests.

The steps in making a potato starch facial mask are starting from the preparation stage to implementation with the following steps (i) cut the jackfruit leaves into six small parts according to the taste and ability of the juicer, (ii) put them in a juicer or a wheeled juicer glass use a flat knife or the usual one to grind chilies and onions, or you can use another type of juicer, (iii) wait until smooth then filter it slowly because it has become powder so the mask doesn't scatter, (iv) store it in a closed jar tightly and in a dry place. If you want to take it using a dry spoon. The mask can last for one month.

While the instruments in this study were laboratory tests, organoleptic tests, and hedonic tests. Then the data analysis technique is descriptive with the analytical method to find out the quality of the jackfruit leaf powder mask.

RESULT AND DISCUSSION

Laboratory Test Results

Jackfruit leaf powder mask samples were tested in the laboratory with the aim of knowing the Flavonoid content in jackfruit leaf powder masks. The results obtained from the laboratory tests are shown in the following table.

Table 1. Laboratory Test Results for Flavonoid Content Jackfruit Leaf Powder Mask

Parameter	Analysis results	Method
Up to Flavonoids	1.27% (in 100 gram sample)	Spektroftometer UVVIS

Based on the table above, it can be seen that the Flavonoid content of the jackfruit leaf powder mask is 1.27% gram.

Texture Organoleptic Test Results

Table 2. Texture Test Results

No	Score	Frequency	Calculation	Presentase
1	1	0	$(0/7)*100$	-
2	2	2	$(2/7)*100$	29%
3	3	5	$(5/7)*100$	71%
4	4	0	$(0/7)*100$	-

Based on the table above, it can be seen that 29% of panelists said the texture of the jackfruit leaf powder mask was quite smooth, and 71% of panelists said the jackfruit leaf powder mask had a fine texture.

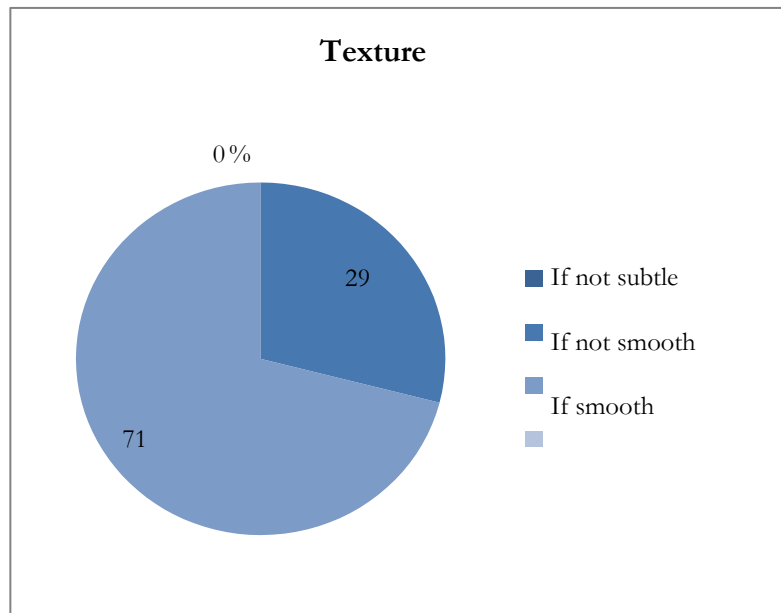


Fig 1. Texture Organoleptic Test Results

Aroma Organoleptic Test Results

Table 3. Aroma Test Results

No	Score	Frequency	Calculation	Percentage
1	1	2	$(2/7)*100$	29%
2	2	4	$(4/7)*100$	57%
3	3	1	$(1/7)*100$	14%
4	4	0	$(0/7)*100$	0%

Based on the table above, it can be seen that 29% of panelists said the jackfruit leaf powder mask did not have a distinctive jackfruit leaf scent, 57% of panelists said the jackfruit leaf powder mask had a less distinctive jackfruit leaf scent, and 14% of panelists said the jackfruit leaf mask had a distinctive jackfruit leaf scent.

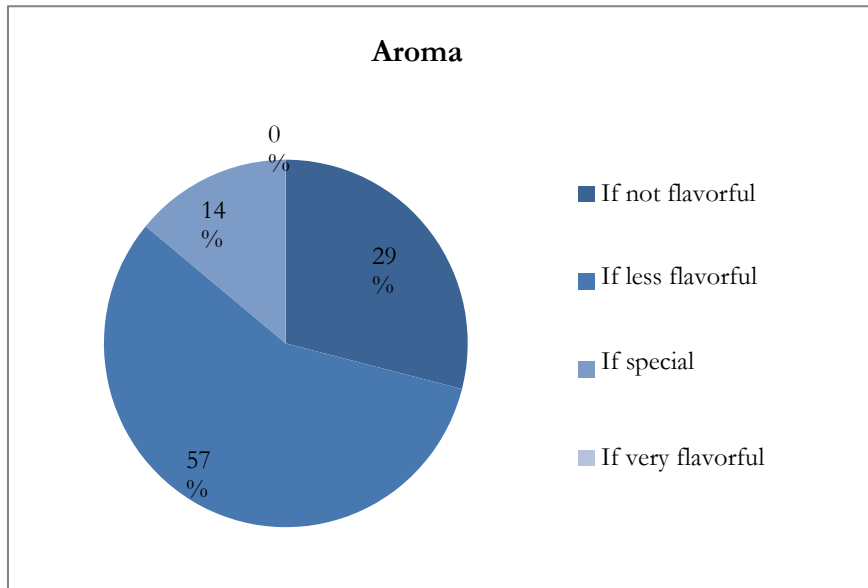


Fig 2. Aroma Organoleptic Test Results

Organoleptik Test Results Stickiness

Table 4. Stickiness Test Results

Score	Frequency	Calculation	Precentage
1	0	$(0/7)*100$	-
2	2	$(2/7)*100$	29%
3	4	$(4/7)*100$	57%
4	1	$(1/7)*100$	14%

Based on the table above, it can be seen that 29% of the panelists said the stickiness of the jackfruit leaf powder mask was not very sticky, 57% of the panelists said the jackfruit leaf powder mask was sticky, and 14% of the panelists said the jackfruit leaf powder mask was very sticky.

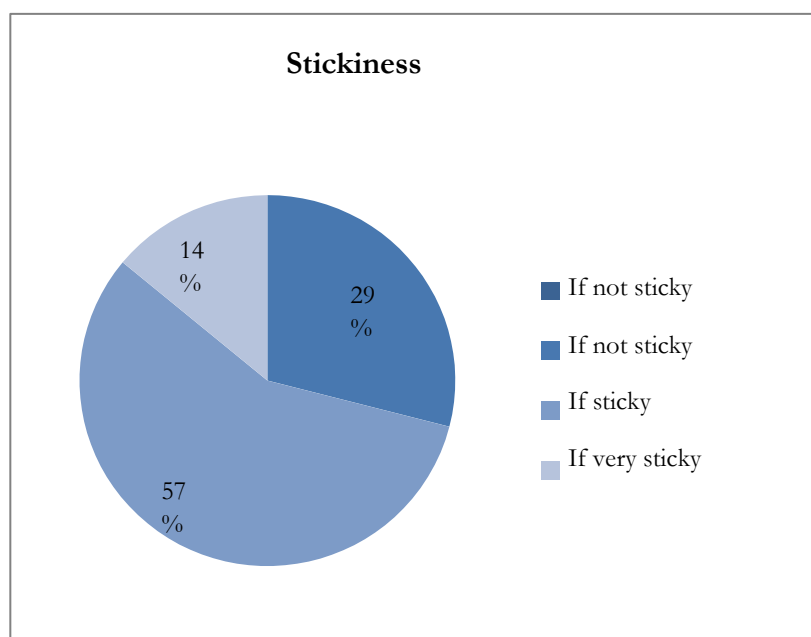


Fig 3. Organoleptic Test Results for Stickiness

Panelists' Favorite Hedonic Test Results

Table 5. Panelist Favorability Test Results

Score	Frequency	Calculation	Precentage
1	0	(0/7)*100	-
2	0	(0/7)*100	-
3	7	(7/7)*100	100%
4	0	(0/7)*100	-

Based on the table above, it can be seen that 100% of the panelists said they liked the jackfruit leaf powder mask.

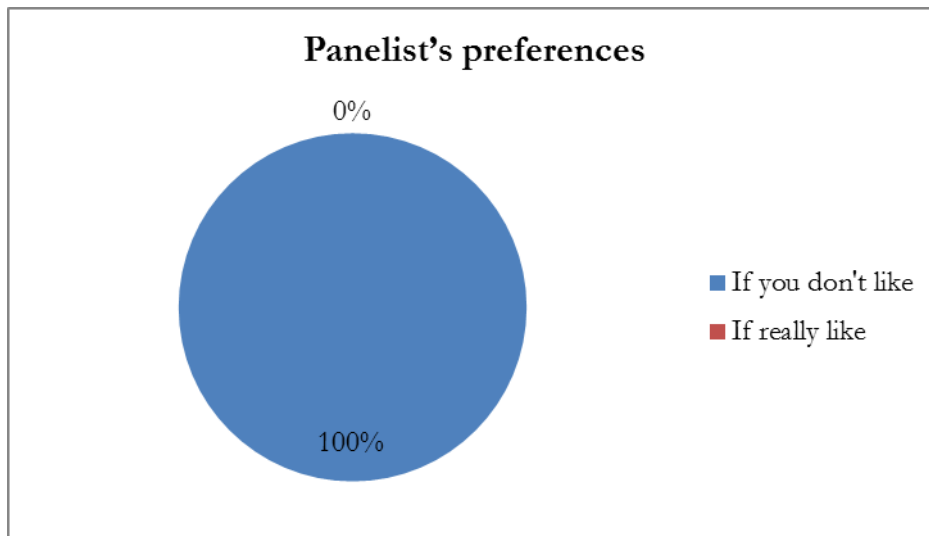


Fig 4. Panelist's Favorite Hedonic Test Results

CONCLUSION

Based on the findings of researchers regarding the manufacture of masks which were seen from the feasibility of laboratory tests, organoleptic tests (texture, aroma, and stickiness), hedonic tests (panelist preferences) found that (i) the feasibility of powder masks was seen from laboratory tests containing flavonoids for treatment acne facial skin. Flavonoid content of 1.27% functions as an antioxidant and antibacterial which can inhibit free radicals, and which can inhibit blood circulation in facial skin; (ii) the feasibility of the jackfruit leaf powder mask seen from the organoleptic test showed a texture of 71% said the jackfruit leaf powder mask had a smooth texture, for aroma 57% said the jackfruit leaf powder mask lacked the distinctive aroma of jackfruit leaves, and for adhesion 57% said the powder mask sticky jackfruit leaves, and (iii) the feasibility of the jackfruit leaf powder mask, seen from the results of the hedonic test or the panelists' preference, showed that 100% of the panelists liked the jackfruit leaf powder mask. The jackfruit leaf powder mask was said to be feasible after carrying out laboratory content tests, organoleptic testing by observing texture, aroma, adhesion as well as hedonic testing, namely the panelist's preference for masks.

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