

# Air freshener essay sample

[Environment](#), [Air](#)



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## ABSTRACT

An air freshener is a product designed to mask or remove unpleasant room odors. These products typically deliver fragrance and other odor counteractants into the air. They do so through a variety of product formats, including aerosols, candles, potpourri, and gels. The researchers decided to create an air freshener spray made from Sampaguita (*Jasminum sambac*) petals and Orange (*Citrus sinensis*) peelings extract. This study was conducted for the main purpose of comparing the difference between the commercial air freshener spray and homemade air freshener spray and to test the acceptability of the Sampaguita (*Jasminum sambac*) petals and Orange (*Citrus sinensis*) peelings extract air freshener spray. The results of the study will be interpreted with the use of weighted arithmetic mean and T-test.

From the results that the researchers conducted, it is shown in the study, the results are: the computed T-test for odor is 5.6; thus rejecting null hypothesis. For color, the computed T-test is 3.7; thus rejecting null

hypothesis. For texture, the computed T-test is 6. 1; thus rejecting null hypothesis.

## CHAPTER I

### Problem and Its Background

#### I. Introduction

In modern society, nearly all the people are familiar with air freshener. Air freshener is made from various kinds of ingredients including different kinds of essential oils. By sending out the fragrance, air freshener is able to cover up the bad smell, so as to alleviate the uncomfortable feeling caused by the undesirable odor. A. Background of Study

These products typically deliver fragrance and other odor counteracts into the air. They do so through a variety of product formats, including aerosols, candles, potpourri, and gels. The researchers decided to create an air freshener spray made from Sampaguita (*Jasminum sambac*) petals and Orange (*Citrus sinensis*) peelings extract. (McMath 1993)

Modern methods of air freshener formulation usually use harmful synthetic chemicals that contribute to the damages in our environment. The researchers decided to make air freshener spray made from Sampaguita (*Jasminum sambac*) petals and Orange (*Citrus sinensis*) peelings extract.

#### Objectives:

General Objective: To utilize and determine the acceptability of the quality attributes of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus*

sinensis) Peelings Extract as an Alternative Home Air Freshener Spray.

Specific Objectives:

1. To utilize Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract in making Home Air Freshener Spray.
2. To determine the acceptability of the quality attributes of Home Air Freshener Spray from Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract in terms of:
  - a. Color
  - b. Odor
  - c. Texture
3. To find out if there is significant difference on the acceptability of the quality attributes of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Air Freshener Spray and the Commercialized Air Freshener Spray.

B. Hypotheses:

$H_0$  = There is no significant difference on the general acceptability of the quality attributes of the Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Air Freshener Spray and the Commercialized Air Freshener Spray.  $H_a$  = There is a significant difference on the general acceptability of the quality attributes of the Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Air Freshener Spray and the Commercialized Air Freshener Spray.

C. Conceptual Framework

Schematic Diagram of the Independent and Dependent Variables on the

Utilization and Acceptability of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray

Independent Variables Dependent Variables Acceptability

Quality Attributes

(Color, odor, texture)

Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Home Air Freshener Spray Shelf-Life

Fig. 1. 1 Paradigm of the Independent and Dependent variables of the study Utilization and Acceptability of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray

#### D. Significance of the Study

It's important that your Home is clean and fresh. Besides observing good hygiene, a fresh fragrance also plays an important role. In fact, research has shown that a fresh smell is one of the most important aspects in the perception of cleanliness. But modern methods of air freshener formulation usually use harmful synthetic chemicals that contribute to the damages in our environment. The conclusion of the study was that the use of some air fresheners can produce toxic pollutants when used in the presence of ozone (a form of oxygen). Even minimal ozone concentrations were enough to drive significant indoor chemistry. When the chemicals emitted from the air-fresheners are combined with ozone, pollutants of serious health concern are produced. These include formaldehyde (a known human carcinogen and a

respiratory irritant with a very low threshold for health effects) and ultrafine pollutant particles. Also of concern is the production of acetaldehyde, organic acids, other oxygenated intermediates, hydrogen peroxide, secondary organic aerosol, and hydroxyl radicals. The researchers conducted the study Sampaguaita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray. The Alternative Home Air Freshener Spray contains natural scents that may reduce environmental problems.

#### E. Definition of Terms

For purposes of clarification, the following key terms are hereby defined:

Sampaguaita Petals. The main product used in the study

Orange Peelings. The second main product used in the study Organoleptic tests. This refers to the method of analysis in determining the color, odor, and texture of Sampaguaita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Alternative Home Air Freshener Spray and Commercialized Air Freshener Spray.

Pounding- the process used in this study to extract the essential oil from orange skins.

Boiling- Method of extracting the essential oils from the sampaguaita petals and orange skins. Quality Attributes. As used in the study, it refers to the color, odor, and texture of acceptability Sampaguaita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Alternative Home Air Freshener Spray

## F. Scope and Delimitation

This study will be limited only to the The utilization of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray. In modern society, nearly all the people are familiar with air freshener. Air freshener is made from various kinds of ingredients including different kinds of essential oils. By sending out the fragrance, air freshener is able to cover up the bad smell, so as to alleviate the uncomfortable feeling caused by the undesirable odor.

The researchers decided to create an air freshener spray made from Sampaguita (*Jasminum sambac*) petals and Orange (*Citrus sinensis*) peelings extract. The study was conducted at Alcala's Residence, Waling-waling St., Brgy. San Pablo, Catbalogan City, Samar. The results of the study will be interpreted with the use of weighted arithmetic mean and T-test.

The results and conclusion drawn will, therefore, be true for these utilization of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray and formulation. However, the results will be used as basis for similar studies that may be conducted in the future using different essential oils.

## CHAPTER II

### REVIEW OF RELATED LITERATURE AND STUDIES

Safer Scents: Air freshener alternatives

Houseplants: Geranium, gardenia, jasmine and other fragrant plants are great alternatives to artificial scents. Scented geraniums carry their scent in

their foliage, so they have a mild fragrance all year. Some plants are also particularly good at absorbing air pollutants: heartleaf philodendron, English ivy, spider plant, peace lily, snake plant, gerbera daisies, pot mums and bamboo palm. (Oregon Environmental Council. Org) Herb wreaths: Fresh or dried herbs woven in a wreath are a festive and fragrant decoration that can also be used for cooking. Some florists sell culinary wreaths made with rosemary, thyme, bay leaves, chili peppers and other fragrant tastes. Or, make a wreath from your own garden herbs with instructions from Mountain Valley Growers. About essential oil: A few drops are a good scent alternative to artificial fragrance; not even pure oils can have strong properties.

Lavender and tea tree, for example, have been linked to breast development in boys. Even if essential oils are evaporated rather than burned, they can cause air quality problems. Avoid skin contact when handling, and never use more than a few drops.

Potpourri: Commercial potpourri may be enhanced with chemical fragrances; make your own mixture, and you'll be sure to know all the ingredients! Mix ingredients to display in a dish, sew into a sachet or store in a mason jar with a mesh fabric covering. In Oregon, bulk herbs, spices and dried flowers are often available from local sources. Dried lavender and rosebuds are good base flowers. Dried chamomile, yarrow, marigold, elder flowers, larkspur, delphinium and peony are fine additions. Eucalyptus, sage, rosemary, bay leaves, lemon verbena, citrus peel, star anise, cinnamon sticks, vanilla beans and cloves are fragrant, too. Other ingredients: cedar chips and pine cones add fragrance; interesting twigs and bark may add to color and texture, and Orris root helps preserve the fragrance without artificial fixatives. Powder



can be found sold with other bulk herbs, and liquid is among other herbal supplements. Natural odor absorbers: If it isn't an aroma you're after, but something to freshen the air, there's no substitute for opening the windows or turning on ventilation fans. See more about ventilation. However, you can use baking soda and vinegar as odor absorbers. Baking soda can be sprinkled in garbage cans, on carpets before vacuuming, or an open box left in the refrigerator and freezer to absorb odors. Vinegar can remove odors when used as a surface cleaner or in a spray bottle.

Plug-ins: Plug-Ins consist of a small, plastic tray that holds a gel-like mixture of fragrance. This tray is inserted in a plastic unit equipped with electrical prongs that plug into a standard outlet. The electric current causes a heating element to warm up, vaporizing the volatile fragrance components. The fragrance in the tray lasts several weeks, at which time the consumer simply inserts a fresh tray. The product is designed with a variety of fragrance types to appeal to a wide consumer audience, including Honey-suckle, Mountain Meadow, Country Breeze, Powder Fresh, and Country Garden. Raw Materials: The perfume oils used in preparing fragrance concentrate in the air fresheners can be divided into a variety of types. These include aldehydes, which are members of the synthetic fragrance group. When concentrated, aldehydes smell soapy or fatty; however, when mixed in the proper proportions with water, they develop a sweet, flowery smell. (McMath, 1991)

## CHAPTER III

### Methodology

#### A. Materials and Equipment

## Table 1. 1

## Materials and Ingredients| Quantity|

Sampaguita petals/Essential oil| Orange Peelings/Essential oil| Ethyl Alcohol |

30ml| 30ml| 1 tbsp.| Equipment and Utensils| Quantity|

Table Spoon| 250 mL measuring Cup| Casserole| Mortar & Pistle| Strainer| Spray  
bottle| 1 unit| 1 unit| 1 unit| 1 unit| 1 unit|

## General Procedure

1. Gather and prepare the materials. Such as the ones that were listed above.
2. Detach the Sampaguita petals from its stems.
3. Pound the Orange skins. So it will extract easily for the boiling method.
4. Measure the amount of water that will be used in boiling the Sampaguita petals and Orange skins. (8 oz)
5. Boil the Sampaguita petals and Orange skins for 10 minutes. The boiling method is used to extract their essential oils.
6. Let it simmer/cool for a minimum of ten (10) minutes.
7. Strain the sampaguita petals and orange skins from its essential oil/extract.
8. Add 1 tbsp. of alcohol or sanitizer in the mixed extracts/essential oils. The primary purpose of alcohol is to cause the perfume oils to evaporate faster than they would by themselves, sometimes as much as or 15 times more

quickly. This gives the impression that the perfume is considerably stronger than it actually is. That is why, when you first put on a commercial fragrance, the aroma may sometimes seem overwhelming to those around you. This also explains why the scent fades dramatically within one or two hours. The perfume oils have evaporated along with the alcohol.

Legend:

A- Formulation of the Title

B- Gathering of Related Information

C- Writing of Thesis Proposal

D- Gathering the Materials and Setting Up

E- Making of the Product

F- Training of Panelists and Evaluation of Product

G- Tabulation of Results and Revision of Chapters 1 to 3

H- Writing of Chapters 4 and 5; Submission of the Draft to the Adviser, and Revision of the Draft

I- Revision of the Research paper, and Submission of Bound Research paper

## CHAPTER IV

### Results and Discussion

#### A. Findings

UTILIZATION AND ACCEPTABILITY OF SAMPAGUITA (*Jasminum sambac*)  
PETALS AND ORANGE (*Citrus sinensis*) PEELINGS EXTRACT AS AN  
ALTERNATIVE HOME AIR FRESHENER SPRAY

Table 1. 2

Mean Result of the General Acceptability of the Two Air Freshener Spray Air  
Freshener Spray| MEAN|

| Color| Odor| Texture|

Commercial| 4| 4| 4|

Homemade| 3| 3| 3|

The results from the survey the researchers conducted, it showed that the means of the commercial perfume, color-4, odor-4 and Texture -4. While the means of homemade Air Freshener spray showed, color-3, odor-3, and Texture -3.

Figure 1. 2 Comparison between the commercial and the homemade Air Freshener

Spray in terms of color, odor, and texture. (Mean) A. Cost-Analysis

The cost-analysis was determined to compare Sampaguita (Jasminum sambac) Petals and Orange (Citrus sinensis) Peelings Extract Alternative Home Air Freshener Spray and Commercialized Home Air Freshener Spray

1kg of Orange- 35. 00 (3 attempts) 105. 00 - Php

Alcohol (Ethyl) 135. 00 - Php T O T A L 240. 00 - Php

B. Analysis of Data

Difference on the Acceptability of the quality attributes of Sampaguita (Jasminum sambac) Petals and Orange (Citrus sinensis) Peelings Extract as an Alternative Home Air Freshener Spray and the Commercialized Home Air Freshener Spray

In Table 1. 2: The means of the Commercial Home Air Freshener Spray are: Color is 4, Odor is 4, and lastly, texture is 4. While the homemade or Alternative Home Air Freshener Spray, the means are: Color is 3, Odor is 3, and texture is 3. From the results that the researchers conducted, it is shown that the study, in the results of commercial perfume is 80. 44 percent out of 100 percent of the people approved the product while in the homemade perfume; it is 55. 56 percent out of 100 percent. While in Table 1. 1, it shows that in color, odor and texture, the t-computed is greater than t-value and it showed a big difference between the two Air Freshener Spray, so the alternative hypothesis, “ There is a significant difference between the commercial and homemade perfume in terms of: color, odor and general acceptability”, was accepted. Table 1. 3 T-test Testing on the Difference on the Acceptability of the quality attributes of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray and the Commercialized one. | T-computed| T-value| Degrees of freedom| Interpretation(Alternative)| Color| 4| 1. 701| 28| Accepted|

Odor| 6| 1. 701| 28| Accepted|

Texture| 6| 1. 701| 28| Accepted|

These results further explain that the quality attributes of Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract as an Alternative Home Air Freshener Spray and the Commercialized Air Freshener Spray really differ with each other because the General

Acceptability of the Homemade Air Freshener Spray was acceptable.

## CHAPTER V

### Conclusion and Recommendation

#### Conclusion

Based on the findings of the study, the following conclusions were drawn: 1. As to the economic value, the Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings Extract Mixtures can be a good alternative Air Freshener since the product was proved to be inexpensive and easy to prepare in view of the fact that all the materials are all available in the locality based from the computed mean. 2. Survey showed that most of the respondents accepted the homemade air freshener based from the computed t-test. 3. Based on the results, the alternative hypothesis was accepted. Recommendations

1. To further improve the study the researchers recommend the following: Use other essential oils. 2. Conduct other investigation using Sampaguita (*Jasminum sambac*) Petals and Orange (*Citrus sinensis*) Peelings. 3. Conduct several trials and compare the results of each trial. 4. Application of new technology in preparing the Air Freshener Spray.

## BIBLIOGRAPHY

### Online Resources

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#### Other Resources:

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