

# International Journal on Advanced Science, Engineering and Information Technology

HOME ABOUT USER HOME SEARCH CURRENT ARCHIVES  
ANNOUNCEMENTS

Home > User > Author > Submissions > #910 > Summary

## #910 Summary

SUMMARY REVIEW EDITING

### Submission

|                |                                                                                                                                                                                                                                     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Authors        | Nita Kusumawati, Mirwa Adiprahara Anggarani, - Rusijono, Pirim Setiarso, Supari Muslim                                                                                                                                              |
| Title          | Product Standarization of Ginger ( <i>Zingiber officinale</i> Rosc.) and Red Ginger ( <i>Zingiber officinale</i> var. <i>Rubrum</i> ) Simplicia through Washing Time, Slice Thickness and Raw Materials Drying Process Optimization |
| Original file  | <a href="#">910-1465-1-SM.DOC</a> 2016-08-10                                                                                                                                                                                        |
| Supp. files    | None                                                                                                                                                                                                                                |
| Submitter      | Nita Kusumawati Kusumawati                                                                                                                        |
| Date submitted | August 10, 2016 - 12:35 PM                                                                                                                                                                                                          |
| Section        | Articles                                                                                                                                                                                                                            |
| Editor         | Balza Achmad                                                                                                                                     |
| Abstract Views | 26                                                                                                                                                                                                                                  |

### Status

|               |                              |
|---------------|------------------------------|
| Status        | Published Vol 7, No 1 (2017) |
| Initiated     | 2017-01-31                   |
| Last modified | 2017-02-28                   |

### Submission Metadata

#### Authors

|                                                 |                                                                                                                |
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| Principal contact for editorial correspondence. |                                                                                                                |
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| Country       | Indonesia                                                                                                |
| Bio Statement | —                                                                                                        |

## Title and Abstract

**Title** Product Standarization of Ginger (*Zingiber officinale* Rosc.) and Red Ginger (*Zingiber officinale* var. *Rubrum*) Simplicia through Washing Time, Slice Thickness and Raw Materials Drying Process Optimization

**Abstract** On this study has been conducted product standardization of ginger and red ginger simplicias as one of post-harvest processed form. To get ginger and red ginger simplicia product with high quality, has been done the optimization on the stage of washing, slicing, and drying process. Optimization has done in a range of 1-3 minutes washing time and raw material sliced thickness of 0.15 cm and 0.30 cm. In addition, the production of the entire simplicia has done with three drying methods, including sundried, sunlight through the intermediary of black fabric and dried by the oven. Specifically for the dried by the oven, has conducted optimization on the drying temperatures of 70° C; 85° C; 100° C; and 115° C. The analysis results of active compound content in the simplicia product indicates that the product of ginger and red ginger simplicia with optimum quality has obtained from the production process by washing time for 1 minute, slicing thickness of 0.15 cm, and oven drying method using temperature of 115° C. The ginger and red ginger simplicia product with optimum active compound content obtained by drying time, each for 310 minutes and 280 minutes. The ginger simplicia products contain essential oils, oleoresins, zingiberene in essential oils, gingerol and shogaol in the oleoresins, each by 1.7%; 0.86%; 56.90%; 42.50%; and 21.54%. Meanwhile, the red ginger simplicia products contain essential oils, oleoresins, zingiberene in essential oils, gingerol and shogaol in the oleoresins, each by 2.11%; 0.88%; 78.60%; 80.06%; and 8.02%. Thus, it can be said that, overall, red ginger simplicia product contains an active compound higher than the ginger simplicia product.

## Indexing

**Keywords** simplicia; ginger; red ginger; washing; slicing; drying  
**Language** en

## Supporting Agencies

**Agencies** Direktorat Penelitian dan Pengabdian Masyarakat Kementerian Riset dan Teknologi Pendidikan Tinggi Republik Indonesia

## References

**References** —

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Home > User > Author > Submissions > #910 > **Review**

## #910 Review

SUMMARY **REVIEW** EDITING

### Submission

|         |                                                                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Authors | Nita Kusumawati, Mirwa Adiprahara Anggarani, - Rusijono, Pirim Setiarso, Supari Muslim                                                             |
| Title   | Product Standarization of Ginger ( <i>Zingiber officinale</i> Rosc.) and Red Ginger ( <i>Zingiber officinale</i> var. <i>Rubrum</i> ) Simplicia through Washing Time, Slice Thickness and Raw Materials Drying Process Optimization |
| Section | Articles                                                                                                                                                                                                                            |
| Editor  | Balza Achmad                                                                                                                                       |

### PeerReview

#### Round 1

|                |                                                                                              |
|----------------|----------------------------------------------------------------------------------------------|
| Review Version | <a href="#">910-1467-1-RV.DOC</a> 2016-08-10                                                 |
| Initiated      | 2016-09-08                                                                                   |
| Last modified  | 2016-09-25                                                                                   |
| Uploaded file  | None                                                                                         |
| Editor Version | None                                                                                         |
| Author Version | <a href="#">910-1499-1-ED.DOC</a> 2016-08-17<br><a href="#">910-1499-2-ED.DOC</a> 2016-09-26 |

#### Round 2

|                |                                              |
|----------------|----------------------------------------------|
| Review Version | <a href="#">910-1467-2-RV.DOC</a> 2016-10-02 |
| Initiated      | 2016-10-02                                   |
| Last modified  | 2016-10-02                                   |
| Uploaded file  | None                                         |

### Editor Decision

|                       |                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decision              | Accept Submission 2016-10-13                                                                                                                                                                                  |
| Notify Editor         |  Editor/Author Email Record  2016-09-26 |
| Editor Version        | None                                                                                                                                                                                                          |
| Author Version        | None                                                                                                                                                                                                          |
| Upload Author Version | <div><input type="button" value="Browse..."/> No file selected. <input type="button" value="Upload"/></div>                                                                                                   |

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HOME ABOUT USER HOME SEARCH CURRENT ARCHIVES  
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Home > User > Author > Submissions > #910 > **Editing**

## #910 Editing

SUMMARY REVIEW **EDITING**

### Submission

Authors Nita Kusumawati, Mirwa Adiprahara Anggarani, - Rusijono, Pirim Setiarso, Supari Muslim 

Title Product Standarization of Ginger (*Zingiber officinale* Rosc.) and Red Ginger (*Zingiber officinale* var. *Rubrum*) Simplicia through Washing Time, Slice Thickness and Raw Materials Drying Process Optimization

Section Articles

Editor Balza Achmad 

### Copyediting

#### REVIEW METADATA

|                                                                                                                                      | REQUEST | UNDERWAY | COMPLETE                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------|---------|----------|---------------------------------------------------------------------------------------|
| 1. Initial Copyedit<br>File: None                                                                                                    | —       | —        | —                                                                                     |
| 2. Author Copyedit<br>File: None<br><input type="button" value="Browse..."/> No file selected. <input type="button" value="Upload"/> | —       | —        |  |
| 3. Final Copyedit<br>File: None                                                                                                      | —       | —        | —                                                                                     |

Copyedit Comments  No Comments [COPYEDIT INSTRUCTIONS](#)

### Layout

|                                   |                              |    |
|-----------------------------------|------------------------------|----|
| Galley Format                     | FILE                         |    |
| 1. PDF <a href="#">VIEW PROOF</a> | 910-3639-1-PB.PDF 2017-02-15 | 27 |
| Supplementary Files               | FILE                         |    |
|                                   | None                         |    |

Layout Comments  No Comments

### Proofreading

#### REVIEW METADATA

|           | REQUEST | UNDERWAY | COMPLETE                                                                              |
|-----------|---------|----------|---------------------------------------------------------------------------------------|
| 1. Author | —       | —        |  |

|                  |   |   |   |
|------------------|---|---|---|
| 2. Proofreader   | — | — | — |
| 3. Layout Editor | — | — | — |

Proofreading Corrections  No Comments [PROOFING INSTRUCTIONS](#)

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