40. Quality Deterioration and Shelf Life Estimation of Corn Yogurt was Packaged by Glass Bottle

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Quality Deterioration and Shelf Life Estimation of Corn Yogurt was Packaged by Glass Bottle

Nur Aini*, Vincentius Prihananto, Gunawan Wijonarko, Yuni Astuti, Melda Ruth Maulina, and Muthmainah

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Packaging is an important factor to controlling the process of deterioration of food products, including determining the shelf life. Glass bottles are often used to package liquid products such as yogurt as well its mechanical resistance. The objective of this paper are: (1) to determine the kinetics of quality deterioration yoghurt corn on the packaging of glass bottle; (2) to estimate the shelf life of yogurt corn stored in glass bottle packaging. Yogurt corn packaged using glass bottles stored at 5, 10 and 15 °C . Analysis of the chemical, physical and sensory carried out every 7th day of storage for 21 days of storage. Determination of shelf life is done using methods ASLT with Arrhenius models. Lactic acid bacteria decreased slightly during storage. Viscosity and protein levels decreased during the first week, then increased until the third week of storage. pH and total acid tertitrasi which tend to increase as well as the variable total dissolved solids tend constant during storage. For variable sensory panelists scoring average tends to decrease as the length of storage time Corn yoghurt stored in glass bottles have a shelf life of 5.9; 4.6 and 3.6 months at 5, 10 and 15 °C and long retention (3×10^4 s at 85 °C).

Keywords: Corn Yogurt, Packaged, Glass Bottle, Shelf Life.

1. INTRODUCTION

Dairy-based probiotic products were being circulated in the market, such as yogurt. For people who allergenic of milk proteins, it needs alternative materials to make yogurt. We have been developed a probiotic corn extract that has properties similar to yogurt that had a total of lactic acid bacteria (LAB) 8.74 log CFU/g. It shows that probiotic corn extract fulfill the requirements as food probiotics are lactic acid bacteria should have a 6 log CFU/g.[1]

Food packaging was essential to prevent the occurrence of changes in the quality of the product. Various food grade packaging were available on the market, one of which is glass bottle. Glass bottles are often used to package liquid products such as yogurt as well its mechanical resistance.

Information about shelf life of the product is very important for many stakeholders, including producers, consumers, sellers, and distributors. One way of fixing the shelf life of food is using the Accelerated Shelf-Life Testing (ASLT) with Arrhenius approach. The principle of the method ASLT was accelerate damage to physical–chemistry products with high temperature and then determined the actual shelf life by mathematical calculation.

The purpose of this paper are: (1) to determine the kinetics of quality deterioration yoghurt corn on the packaging of glass bottle; (2) to estimate the shelf life of yogurt corn stored in glass bottle packaging.

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2. EXPERIMENTAL DETAILS

2.1. Making of Corn Yogurt

Yogurt corn was made by method.[2] First, 150 ml of sweet potato extract was mixed with 1 l of sweet corn extract. Furthermore to the mixture was added 100 ml of mung bean juice, 150 ml of sugar and 100 g of skim milk. The next step is the inoculation materials using the mixed culture of *Lactobacillus bulgaricus* and *Streptococcus thermophilus*. Ingredients that have been inoculated subsequently incubated for 8 hours at 37 °C.

2.2. Analysis

Corn yogurt that has been incubated then packaged with glass bottle. The storage is done in the refrigerator 5 °C, 10 °C, and 15 °C for 21 days. Yogurt was analyzed every 7 days for 21 days. The variables measured in this study included a total of lactic acid bacteria,[3] pH measurements are performed with the potentiometric method using a pH meter, total dissolved solids (using a refractometer), lactic acid levels were determined by titration with a solution of alkali (Mann, s Acid Test), and total protein levels (micro Kjeldahl method).

The sensory analysis includes color, acid taste, flavor and preferences using the test scoring. Panelists used are 20 trained panelists. Scoring is expressed on a scale of 1 to 5. The data were analyzed using linear regression method and descriptive analysis.

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2.3. Determination of Shelf Life

Determination of shelf life was using ASLT with Arrhenius models. The steps being taken include the establishment of parameters that become the critical point, temperature determination, forecasting the timing and frequency of data collection. Based on these parameters then plotted in Arrhenius models, namely:

$$\ln k = \ln k_o - (E_a/\text{RT})$$

Based on the equation obtained value of the activation energy (E_a) of each parameter. The parameters were selected that has the smallest activation energy. The smaller the activation energy faster then the product will be damaged. The next step is determining the shelf life (t_s) using the equation order, namely.

$$t_s = \frac{A_0 - A_t}{k \cdot t} \quad \text{(Orde 0), and} \quad t_s = \frac{\ln(A_0/A_t)}{k_t}\text{(Orde 1)}$$

3. RESULTS AND DISCUSSION

3.1. Description Quality of Initial and the End

Yogurt is a fermented product that involves some friendly bacteria such as *Lactobacillus bulgaricus*, *Streptococcus* viability of the product. Initial and final characterization is an important factor in the shelf life estimating using Arrhenius models (Table I) *thermophillus* and *Lactobacillus acidophillus*. Therefore, shelf life of the product to be important in order to optimize the viability of the product. Initial and final characterization is an important factor in the shelf life estimating using Arrhenius models (Table I).

Quality of yogurt changes during storage (Table I) pH, viscosity, total acid, and protein increases on the 21st day of storage. According to Ref. [4], lactic acid is growing more if the storage is getting longer. Reference [5] stated that during storage yogurt increases the viscosity by increasing the production of lactic acid causes an increase in total acid resulting in a change in the structure of proteins (denaturation). Changing the structure of a protein causes the protein to total bacterial breakdown products also increased.

Lactic acid bacteria decrease during storage, from 7.573 to 6.893 log CFU/ml. At the end of storage, the amount of BAL still fulfils the minimum requirements as probiotic food, at least 6 log CFU/ml. The decrease during storage is better than[6] that found in yogurt, LAB decrease of 2.34 log cycles during 28 days of storage. According to Ref. [6], a decrease in viability of lactic acid bacteria is caused by the more acid production, so the lactic acid bacteria will death. Meanwhile, according to Ref. [8], the more the total BAL present in a food, the increasingly competition between BAL. That means more of total BAL in a food, nutrient availability will be dwindling and survival of BAL is getting shorter, so the longer storage, an amount of BAL decreases.

Table I. Description of initial and final quality of corn yoghurt at a temperature of 5 °C

Quality parameters	Initial value (A_0)	Final value (A_1)
Lactic acid bacteria (log CFU/ml)	7,573	6,893
Protein (%)	2,18	2,67
Total acidity (%)	0,768	0,786
pH	4,4	4,5
Soluble solid (°Brix)	23	22
Viscosity (mPa/s)	160	190

Table II. Acceptance of the product during storage at 15 °C.

Day	A	B	C	D	Rejection (%)
0	4.97	3.45	3.23	3.98	0
7	4.15	2.95	4.05	2.9	25
14	3.95	3.05	4	2.8	30
21	2.2	2.05	3.55	1.85	40

The protein content slightly rises because of the increased metabolite produced by lactic acid bacteria. Reference [9] explains that the metabolite produced by LAB is bacteriocin. The longer the fermentation, the more lysine was formed. It also resulted in an increase in pH.

Table II shows the mean of the product acceptance test by panelists during storage at the critical temperature (15 °C). In estimating the shelf life of the product, sensory test carried out more than 50% of panelists rejected the product. Corn yoghurt was rejected by 50% of the panelists after 21 days of of storage at 15 °C, especially in the assessment of aroma and preference. Reference [7] states that the typical yoghurt flavor derived from lactic acid, acetaldehyde, acetic acid and diacetyl. On the 21st day of storage, yoghurt volatile compounds evaporate and are replaced with other compounds that cause off the odor or loss of the typical yoghurt aroma.

3.2. Determining Parameter and Critical Point

Quality attributes associated with the yoghurt fermentation by lactic acid bacteria. Other quality attributes is the stability of the yoghurt, seen from yoghurt damage occurs in the form of wheying off or syneresis. This can occur marked a clumps that split. parameter selection criteria shelf life of a product, namely:

(1) the quality parameters of the fastest decline during storage, shown with the greatest R squared,

(2) quality parameters most sensitive to temperature changes, the views from the activation energy (E_a) is lower.

To determine critical point, first we should be determine ordo of each parameter. According Ref. [7], a critical factors in yogurt are a total acid, coliforms, and sensory properties. According to Ref. [6], on a dairy beverage products, the parameters that have the highest R^2 value and the activation energy (E_a) is the lowest pH. In this study, the critical parameters used are pH and total acid.

pH and total acid corn yoghurt plotted against time to obtain three regression equations on a particular storage temperature. Determination of the reaction order using the chart zero order and the first order. From the equation will get the highest R^2 is selected as the reaction order. Order selected then plotted on the Arrhenius equation. Arrhenius equation is a plot between the value of $1/T(K-1)$ and $\ln k$. Then created a linear regression to obtain a linear equation $\ln k = \ln k0 - (E/R)(1/T)$, with $\ln k_0$ is the intercept and E/R is the slope. E_a is the activation energy and R is the ideal gas constant is 1.986 cal/mol. The parameters

Table III. The linear regression of lactic acid bacteria.

Temperature (°C)	Linear regression		R^2	
	Zero ordo	First ordo	Zero ordo	First ordo
5	$y = -0.041x + 7.55$	$y = -0.006x + 2.02$	0.991	0.993
10	$y = -0.041x + 7.53$	$y = -0.006x + 2.02$	0.984	0.988
15	$y = -0.029x + 7.44$	$y = -0.004x + 2.01$	0.777	0.783

Table IV. The activation energy of each parameter.

Parameter	Arrhenius equations	R^2	Activation energy (cal/mol°K)
Lactic acid bacteria	$y = 2849x - 15.4$	0.699	5641
Protein	$y = -19748x + 66.4$	0.943	391101
pH	$y = -3265x + 6.6$	0,750	6464
Total acid	$y = -9647x + 29$	0.828	19101
Soluble solid	$y = 2355x - 12$	0.178	4663
Viscosity	$y = -5620x + 14.8$	0,399	11126
Color	$y = -2530x + 2.7$	0.898	5007
Acid taste	$y = -3925x + 9.9$	0.697	7772
Flavor	$y = -21153x + 68$	0.667	41883
Preference	$y = -4806x + 12$	0.279	9516

Table V. The result of the calculation of the shelf life of corn yogurt was packaged glass bottle.

Temperature (°C)	k value	Shelf life (months)
5	0.0049	4.4
10	0.0061	3.6
15	0.0075	2.9

that most influence deterioration during of storage were selected based on the lowest value of the activation energy.

Every parameter plotted against time to obtain three regression equations on each of the storage temperature. Determination of the reaction order using the chart zero order and the first order. From the equation will get the highest R^2 is selected as the reaction order. Table III shows one example of the selection order of the reaction. R square of first ordo has greater than zero ordo, so we choose the first ordo. Ordo selected then plotted on the Arrhenius equation, so we get the value of activation energy (Table IV).

The parameters that most influence deterioration during of storage were selected based on the lowest value of the activation energy. This is because the lower the activation energy of a reaction, degradation will run faster. In this study, the soluble solid has the lowest activation energy is 4663 cal/mol°K.

3.3. Determining Shelf Life

Based on the Arrhenius equation, it can be calculated the value k of each critical point. The value of k is a constant deterioration, associated with shelf life. The higher k, degradation will be greater, so it will shorten the shelf life. Value of $\ln k_o$ and $-E/R$ on the Arrhenius equation is a constant number, so that the equation can be written as $\ln k = A + Bx(1/T)$. Thus, the value $\ln k_o = A$ and value $-E/R = B$. Based on these equations can be specified shelf life (T).

The shelf life of yogurt at 5, 10 and 15 °C was 4.4; 3.6 and 2.9 months. This is in line with Ref. [5] that the yogurts sold in the market have a shelf life of about 2 to 3 months at refrigerator temperature (34–40 °F), or about 1 to 5 °C. Good storage temperature for the yogurt is usually done in the refrigerator temperature ±4 °C.

4. CONCLUSION

The decline of the quality of yoghurt corn is in the first week of viscosity and total protein levels decreased and then increased until the third week of storage. pH, lactic acid bacteria and total acids that tend to increase as well as the variable total dissolved solids tend constant during storage. For variable sensory panelists assessment tends to decrease as the length of storage time. Corn yoghurt stored in glass bottles has a shelf life of 4.4; 3.6 and 2.9 months at 5, 10 and 15 °C

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References and Notes

1. A. Y. Tamime, M. Saarela, A. K. Sondergaard, V. V. Mistry, and N. P. Shah, *Probiotic Dairy Products* 3, 39 **(2005)**.
2. N. Aini, V. Prihananto, G. Wijonarko, A. Arimah, and M. Syaifudin, *Agritech* 37 **(2017)**, (in press).
3. M. Y. Ha, S. W. Kim, Y. W. Lee, M. Y. Kim, and S. J. Kim, *Journal Biosience and Bioengenering* 96, 134 **(2003)**.
4. N. Layadi, P. Sedyandini, Aylianawati, and F. E. Soetaredjo, *Widya Teknik* 8, 1 **(2009)**.
5. D. M. Saccaro, A. Y. Tamime, A. L. O. P. S. Pillegigi, and M. N. Oliveira, *International Journal of Dairy Technology* 62, 397 **(2009)**.
6. M. R. Damin, E. Minowai, M. R. Alcantara, and M. N. Oliveira, *Journal of Texture Studies* 39, 40 **(2008)**.
7. L. C. Allgeyer, M. J. Miller, and S. Y. Lee, *Journal Dairy Science* 93, 4471 **(2010)**.
8. M. Gurses, B. Cetin, and M. Sengu, *Asian Journal of Chemistry* 21, 4097 **(2009).**
9. C. A. Van-Reenen and L. M. T. Dicks, *Archives of Microbiology* 193, 157 **(2011)**.

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Semarang, August 22nd, 2016

No. : 26/AA/ICCPPE/VIII/2016
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Dear Sir/Madam,

We are pleased to inform you that your abstract:

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Author : Nur Aini, Vincentius Prihananto, Gunawan Wijonarko, Yuni Astuti, Muthmainah, Melda Ruth Maulina

Code : G-3

has been accepted and will be presented for oral presentation in the International Conference on Chemical Process and Product Engineering (ICCPPE) 2016 organized by Department of Chemical Engineering Diponegoro University. The ICCPPE will be held in Noormans Hotel-Semarang on 14th -15th September 2016. Please note that this acceptance letter is also considered as **an invitation letter**.

Hence, we would like you to submit the abstract and full-paper manuscript which have been formatted according to the templates together with the CV of the presenter (please kindly find the files in the attachments). The files should be saved as **"code-abstract", "code-paper" and "code-cv"**, respectively. Please email the files to iccppeundip@gmail.com before **10th September 2016**. The manuscript will be peer-reviewed and the selected one will be published in **Bulletin of Chemical Reaction Engineering & Catalysis** and **Advanced Science Letter**, which is indexed by Scopus.

We would like to remind you that the due date for early-bird payment is **22nd-31st August 2016**.

We are looking forward to seeing you in Semarang.

Sincerely,

Dr-Ing. Suherman
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B. THERMODYNAMICS, SEPARATION AND PURIFICATION PROCESSES
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Prof. Shen-Long Tsai
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"Genetically Engineered Yeast Towards Consolidated Bioprocessing"

Plenary Lecture II

Prof. I G. Wenten
(Bandung Institute of Technology, Indonesia)
"Membrane-Based Carbon Capture Technology: Challenges and Opportunities in Indonesia"

Plenary Lecture III

Prof. M. Djaeni
(University of Diponegoro, Indonesia)
"The Air Dehumidification with Zeolite for Sustainable Food Drying"

PROGRAM

Wednesday, 14 September 2016

Time	Program
08.00 – 09.00	Registration
09.00 – 09.30	Opening Ceremony
09.30 – 10.00	Coffee Break 1
10.00 – 10.45	Plenary Lecture I : Prof. Shen-Long Tsai (Chair Person : Dr. Andri C. Kumoro)
10.45 – 11.30	Plenary Lecture II : Prof. I G. Wenten (Chair Person : Dr. Andri C. Kumoro)
11.30 – 12.45	Luncheon
12.45 - 15.00	Oral Presentation – Parallel Session 1
15.00 – 15.30	Coffee Break 2
15.30 – 16.45	Oral Presentation – Parallel Session 2

Thursday, 15 September 2016

Time	Program
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09.00 – 09.45	Plenary III : Prof. M Djaeni (Chair Person : Dr. Hadiyanto)
09.45- 10.15	Coffee Break 1
10.15-12.00	Oral Presentation – Parallel Session 3
12.00-13.00	Luncheon
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Wednesday, 14 september 2016

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13.15-13.30	A3	B3	E3	F3
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14.30-14.45	A7	B7	E7	F8
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Chair Person	Prof. Dr. Ir Achmad Roesyadi	Dr. Suherman	Prof. Dr. Ir. Nelson Saksono, MT	Dr. Dyah Hesti Wardhani

ORAL PRESENTATION – PARALLEL SESSIONS

Thursday, 15 September 2015

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	Heri Cahyono		Diponegoro University
	Muhija		Diponegoro University
	Bontor		Diponegoro University
59	Siswo Sumardiono	Physicochemical Properties of Sago Starch Under Various Modification Process: An Overview	Diponegoro University
	Rizki Bintari Rakhmawati		Diponegoro University
60	Siswo Sumardiono		Diponegoro University

	Mohamad Djaeni	Modification Chemical and Physical Modification of Cassava Starch Using Lactic Acid and Ethanol Under Oven and Solar Drying	Diponegoro University
	Bakti Jos		Diponegoro University
	Isti Pudjihastuti		Diponegoro University
	Mohamed Abdallatif		Diponegoro University
61	Nur Aini	Quality Deterioration and Shelf Life Estimation of Corn Yogurt was Packaged by Glass Bottle	Jenderal Soedirman University
	Vincentius Prihananto		Jenderal Soedirman University
	Gunawan Wijonarko		Jenderal Soedirman University
	Yuni Astuti		Jenderal Soedirman University
	Melda Ruth Maulina		Jenderal Soedirman University
	Muthmainah		Jenderal Soedirman University
H. ENERGY RESOURCES AND MANAGEMENT			
62	W. Widayat	Biofuel Production From Kapok Seed Oil With Catalytic Cracking Process By Using Microwave	Diponegoro University
	Imam Noor Said		Diponegoro University
	Nadya Auliani Rahmatillah		Diponegoro University
63	Slamet priyanto	Preliminary study of development surfactant sodium ligno sulfonate (SLS) from waste biomass in the application of enhanced oil recovery (EOR) yield increase in production for crude oil indonesia	Diponegoro University
	Suherman		Diponegoro University
	Istadi		Diponegoro University
	Amin Nugroho		Diponegoro University
	Hapsoro Aruno Aji		Diponegoro University
64	Eflita Yohana	The Optimization of Process Production of Sunan Pecan Oil as Biodiesel using Response Surface Methodology (RSM) Method	Diponegoro University
	Diyono Ikhsan		Diponegoro University
	Mohammad Endy Yulianto		Diponegoro University
	Indah Hartati		Wahid Hasyim University
	Aditya Marga Nanta		Diponegoro University
65	Totok Prasetyo	Effect of C/N Ratio And pH on Biogas Production from Industrial Cassava Starch Wastewater Through Anaerobic Process	Semarang State Polytechnic
	Siswo Sumardiono		Diponegoro University
	Hapsoro Aruno Aji		Diponegoro University
	Anggara Yudha Pratama		Diponegoro University

ICCPPE 2016

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TOPICS AND SCOPES

We would kind accept papers according to theme of Innovative Chemical Process and Product Development for Future Human Security, especially about all of aspect on chemical and product engineering, but not limited to

- Heat, Mass and Momentum Transfer
- Chemical Reaction Engineering and Catalysis
- Thermodynamics
- Separation and Purification Technology
- Bioprocess and Biochemical Engineering
- Clean Production and Waste Management
- Energy Conversion and Management
- Sustainable Development and Higher Education in Chemical Engineering
- Natural and Synthetic Materials Technology
- Food Science and Technology
- Modeling, Simulation, Control and Analysis of Manufacturing Processes

GUIDELINE FOR ONLINE SUBMISSION

Before submission of a manuscript can be made, an Author should first register **as Author (please check-mark the Author checklist).** In addition**,** He/She may also take the opportunity to register as **Reviewer (please check-mark the Reviewer checklist)** through the following address:

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Author should fulfill the form as detail as possible where the star marked form must be entered and **don't forget to check-mark the account type checklist (reader, author or reviewer)**. After all form textboxes have been filled, Author clicks on "**Register**" button to proceed the registration. Then, Author will be brought to online author submission interface where Author should click on "**New Submission**".

In the Start a New Submission section, the author will be directed to step one of the four-step submission process. The following are four steps in online submission process:

1. **Step 1 - Starting the Submission**: Author must check-mark on the submission checklists and copyright notice.
2. **Step 2 – Entering Submission's Metadata**: In this step, detail authors metadata should be entered including marked corresponding author. After that, manuscript title and abstract must be uploaded by copying the text and paste in the textbox including keywords also author must upload it in Step 3.
3. **Step 3– Uploading Supplementary files:** In this step, authors must upload the abstract as supplementary file by click choose file and upload. In supplementary file meta data please fill title with title abstract and choose type as other and specify other as "abstract"
4. **Step 4 – Confirming the Submission**: Author should final check the uploaded abstract or manuscript documents in this step. To submit the manuscript to ICCPPE 2016, click Finish Submission button after the uploaded documents are correct. The corresponding author or the principal contact will receive an acknowledgement by email and will be able to view the submission's progress through the editorial process by logging in to the journal web address site.

After this submission, Author who submit the abstract or manuscript will get a confirmation email about the submission. Therefore, Author is able to track his/her submission status at anytime by logging in to the online submission interface. The submission tracking includes status of manuscript review and editorial process.

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PREPARING GUIDELINES FOR FULLTEXT PAPER

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- **Please prepare your fulltext paper according to the template as follows (please download here): http://goo.gl/9wobI8 (under construction)**
- **Guidelines for Fulltext Paper Submission by online**:
  - Please login using username and password created during abstract submission in the conference website (http://econference.undip.ac.id/index.php/iccppe/)
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  - Click on the Title of your paper
  - You will bring to Step 3 (Upload Submission). In the "*Upload submission file*" click on button "Choose file", and **don't forget to click button "*Upload*"**
  - Upload supplementary file (if any), if not, just click Next.
  - Click "Finish Submission" on the Step 5 (Confirmation).
  - If you face any problems for uploading your full paper, we welcome you to send it via email (**iccppeundip@gmail.com**). Please save it with file name with format as follows: **PaperID_ 1st name of author_Institution.doc**
  - However, we prefer you uploading your full paper in your account using your username and password as created before. **Please do not make a new account for your easy administration**!!
  - All of full paper must be uploaded in our website or received by: **September 1st at 11:59 pm**
  - More than this due time, we do apologize that we cannot recognize your paper involve in our selection for publishing in *ALS Proceeding* or *BCREC Journal*. Otherwise, we would publish them in our ISBN registered regular proceeding.
  - This selection step is conducted in accordance with regulation in our committee which is a full authority of scientific committee.

Post presentation in our conference, we would put further in reviewing for selected papers.

IMPORTANT DATES

- Abstract submission due: August 1st, 2016
- Abstract acceptance notification: August 1st, 2016
- Full paper submission due: September 1st, 2016
- Early bird payment on: August 1st— 15th, 2016
- Registration payment due: September 1st, 2016
- Cancelation due: August 15th, 2016
- Conference days on: September 14—15th, 2016

KEYNOTE SPEAKERS

1. **Prof. Rosli Ilyas** (UKM Malaysia)*
2. **Prof. Shen-Long Tsai** (NTUST Taiwan)
3. **Prof. Yongchai Kwon** (Seoultech Korea)
4. **Prof. I G. Wenten** (ITB Indonesia)
5. **Prof. Dr. M. Djaeni** (UNDIP Indonesia)

*in confirmation

REGISTRATION FEES AND PAYMENT

Category	Early Bird Payment	Normal Payment
Reguler presenter	IDR 1.750,000	IDR 2,000,000
Student presenter	IDR 1,500,000	IDR 1.750,000
International presenter	USD 250	USD 300
International student	USD 150	USD 200
Participant		
Additional paper	IDR 1.250.000	IDR 1.500.000
	USD 50/paper	USD 50/paper
Refund for cancellation	(IDR 600,000)	(IDR 650,000)
	IDR 1.000,000**	

No refund or cancelation after August 15th, 2016

Registration fee must be transfered to:

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CONTACT US

International Conference on Chemical Process and Product Engineering 2016

Department of Chemical Engineering, Diponegoro University
Jl. Prof. H. Soedarto, SH, Kampus Undip Tembalang, Semarang 50275-Indonesia Phone: (62-24) 7460058, Fax: (62-24) 76480675
Email: iccppeundip@gmail.com
Website: http://econference.undip.ac.id/index.php/iccppe/

CONFERENCE PUBLICATIONS

Selected papers from this conference will be published in several Scopus-indexed journals after peer-reviewed process depending on field of the journals after the conference. The selected papers will be distributed to publish in:

- ***Bulletin of Chemical Reaction Engineering and Catalysis*** (ISSN 1978-2993, indexed by Scopus)
- ***Advance Science Letters*** (ISSN: 1936-6612/E-ISSN: 1936-7317)

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ICCPPE 2016

#514 SUMMARY

KORESPONDENSI

SUMMARY REVIEW

SUBMISSION

Authors	Nur Aini
Title	Quality Deterioration and Shelf Life Estimation of Corn Yogurt Was Packaged by Polypropylene
Original file	None
Supp. files	514-462-1-SP.DOCX 28-07-2016
Submitter	Dr Nur Aini
Date submitted	July 28, 2016 - 02:50 PM
Track	General Papers
Director	Director ICCPPE (Director)

STATUS

Status	Abstract In Review
Initiated	28-07-2016
Last modified	03-08-2016

SUBMISSION METADATA

AUTHORS

Name	Nur Aini
Affiliation	Department of Agricultural Technology, Jenderal Soedirman University
Country	Indonesia
Bio statement	—

Principal contact for editorial correspondence.

TITLE AND ABSTRACT

Title	Quality Deterioration and Shelf Life Estimation of Corn Yogurt Was Packaged by Polypropylene
Abstract	Packaging is an important factor to controlling the process of deterioration of food products, including determining the shelf life. Glass bottles are often used to package liquid products such as yogurt as well its mechanical resistance. The purpose of this research are: (1) determine the kinetics of quality deterioration yoghurt corn on the packaging of glass bottle; (2) estimate the shelf life of yogurt corn stored in glass bottle packaging. Yogurt corn packaged using glass bottles stored at 5, 10 and 15^{o}C . Analysis of the chemical, physical and sensory carried out every 7th day of storage for 21 days of storage. Determination of shelf life is done using methods ASLT with Arrhenius models. Lactic acid bacteria decreased slightly during storage. Viscosity and protein levels decreased during the first week, then increased until the third week of storage. pH and total acid tertitrasi which tend to increase as well as the variable total dissolved solids tend constant during storage. For variable sensory panelists scoring average tends to decrease as the length of storage time. Yoghurt corn was packaged glass bottles have a shelf life of 20, 17 and 14 days at 5,10 and 15 ° C

INDEXING

Keywords	Arrhenius; corn yogurt; glass bottle; shelf life
Language	en

SUPPORTING AGENCIES

Agencies	Ministry of Research, Technology, and Higher Education, Republic of Indonesia

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Kotak Masuk 346
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Ditunda

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Rapat baru
Gabung ke rapat

Hangout
Nur

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attachments). The files should be saved as **"code-abstract", "co**
reviewed and the selected one will be published in **Bulletin of Che**
We would like to remind you that the due date for early-bir

We are looking forward to seeing you in Semarang.

Dr. Suherman
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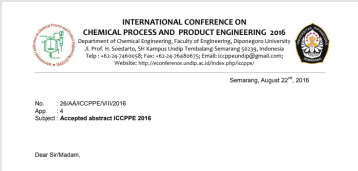

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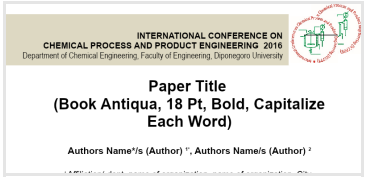

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INTERNATIONAL CONFERENCE ON
CHEMICAL PROCESS AND PRODUCT ENGINEERING 2016
Department of Chemical Engineering, Faculty of Engineering, Diponegoro University
Jl. Prof. H. Soedarto, SH Kampus Undip Tembalang-Semarang 50239, Indonesia
Telp : +62-24-7460058; Fax: +62-24-76480675; Email: iccppeundip@gmail.com;
Website: http://econference.undip.ac.id/index.php/iccppe/

Semarang, August 22nd, 2016

No. : 26/AA/ICCPPE/VIII/2016
App. : 4
Subject : **Accepted abstract ICCPPE 2016**

Dear Sir/Madam,

We are pleased to inform you that your abstract:

Title : Quality Deterioration and Shelf Life Estimation of Corn Yogurt Was Packaged by Polypropylene

Author : Nur Aini, Vincentius Prihananto, Gunawan Wijonarko, Yuni Astuti, Muthmainah, Melda Ruth Maulina

Code : G-3

has been accepted and will be presented for oral presentation in the International Conference on Chemical Process and Product Engineering (ICCPPE) 2016 organized by Department of Chemical Engineering Diponegoro University. The ICCPPE will be held in Noormans Hotel-Semarang on 14th -15th September 2016. Please note that this acceptance letter is also considered as **an invitation letter**.

Hence, we would like you to submit the abstract and full-paper manuscript which have been formatted according to the templates together with the CV of the presenter (please kindly find the files in the attachments). The files should be saved as **"code-abstract", "code-paper" and "code-cv"**, respectively. Please email the files to iccppeundip@gmail.com before **10th September 2016**. The manuscript will be peer-reviewed and the selected one will be published in **Bulletin of Chemical Reaction Engineering & Catalysis** and **Advanced Science Letter**, which is indexed by Scopus.

We would like to remind you that the due date for early-bird payment is **22nd-31st August 2016**.

We are looking forward to seeing you in Semarang.

Sincerely,

Dr-Ing. Suherman
Conference Chair, Organizing Committee
INTERNATIONAL CONFERENCE ON CHEMICAL PROCESS AND PRODUCT ENGINEERING
Website: http://econference.undip.ac.id/index.php/iccppe/
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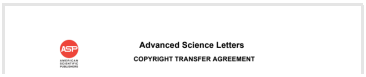
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3. For any addition of pages, a 25 US dollar/page will be imp
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PUBLICATION TYPE	ISSN	COVERAGE
Journals	19366612, 19367317	2010-2017

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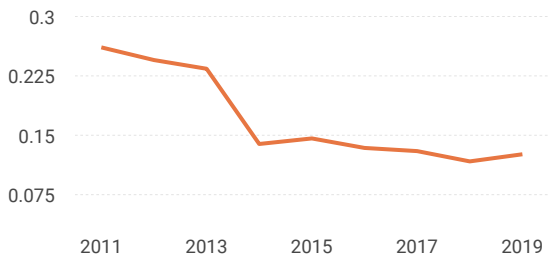

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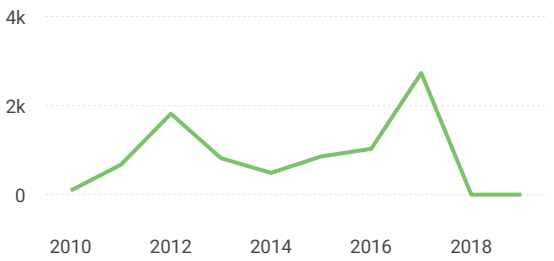

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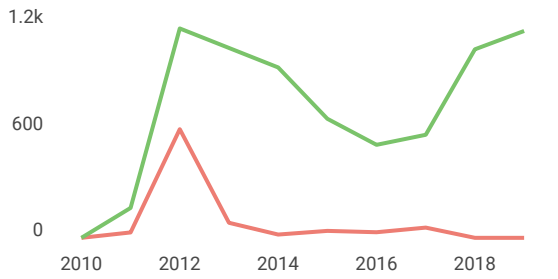

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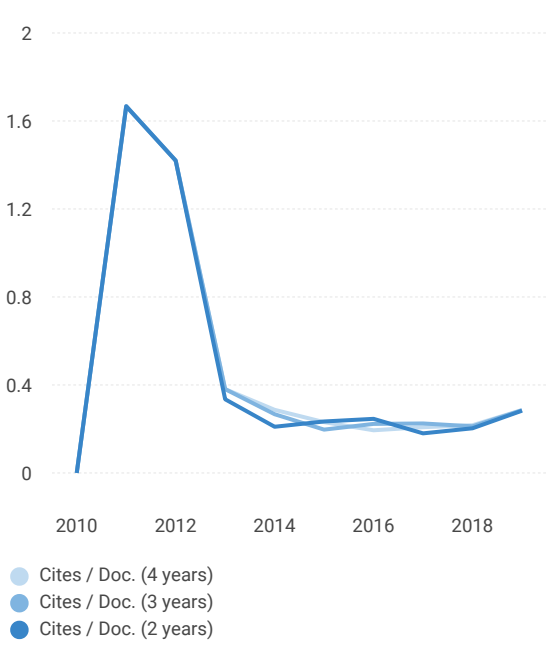

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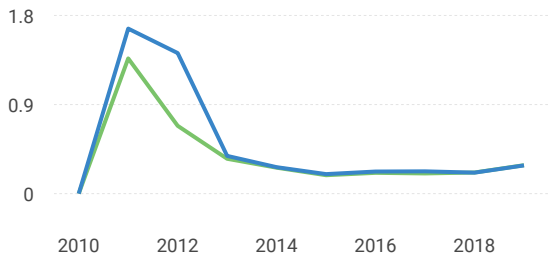

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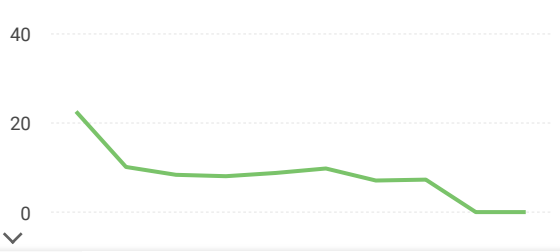

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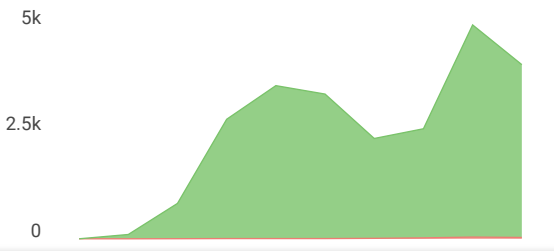

M **MANOJIT DE** 2 years ago

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I have published an article in this Journal. The details of the article as follows:

Name of the article: Studies on Electrical Behavior of Multiferroic Based Double Doped Bismuth Ferrite System
Authors: H. S. Tewari, Aarti Mishra, and Manojit De
Vol. 21
Number 9
Page Nuber: 2807-2810
Year: 2015
DOI: 10.1166/asl.2015.6391

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Regards,
Dr. Manojit De

reply

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