

LAMPIRAN

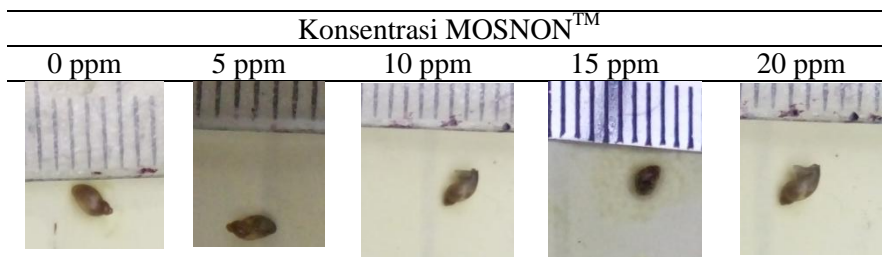
Lampiran 1. Konsentrasi perlakuan

LT 5. Media perlakuan MOSNON™

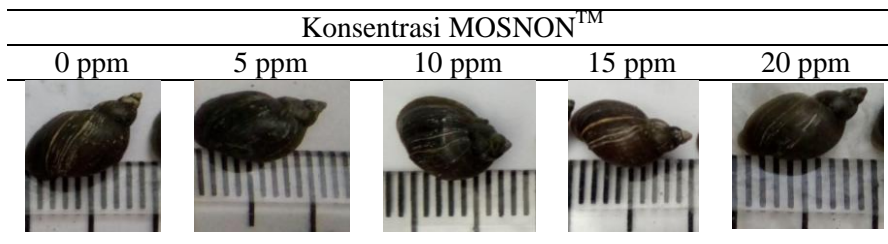
Konsentrasi MOSNON™	Volume air (Liter)	MOSNON™ (gram)
0 ppm	3 L	0
5 ppm	3 L	0,015
10 ppm	3 L	0,03
15 ppm	3 L	0,045
20 ppm	3 L	0,06

Lampiran 2. Hewan Uji (*Lymnaea rubiginosa*)

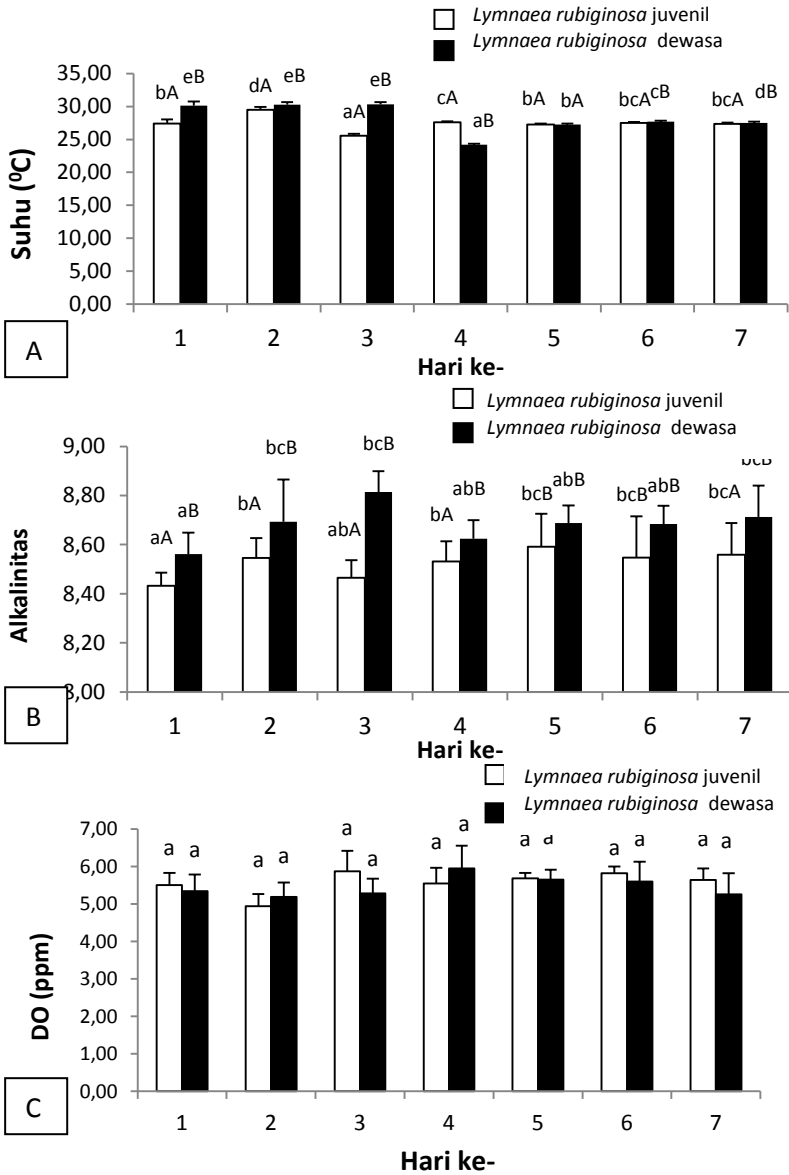
LT 6. *Lymnaea rubiginosa* juvenil



LT 7. *Lymnaea rubiginosa* dewasa



Lampiran 3. Faktor abiotik air selama 7 hari pemberian MOSNON™



LG 9. Faktor abiotik air selama 7 hari pemberian MOSNON™
 A) Suhu; B) Alkalinitas; C) Kadar DO

Lampiran 4. Hasil uji analisis statistik

LT 8. Uji normalitas Kolmogorov-Smirnov faktor abiotik *L. rubiginosa* juvenil

One-Sample Kolmogorov-Smirnov Test^c					
		Suhu	pH	DO	Turbiditas
N		105	105	105	105
Normal Parameters ^a	Mean	27.515	8.5828	5.4920	.9893
		2			
	Std. Deviation	1.1208	.13992	.48791	.89716
Most Extreme Differences	Absolute	.194	.095	.098	.233
	Positive	.194	.095	.059	.233
	Negative	-.175	-.056	-.098	-.224
Kolmogorov-Smirnov Z		1.991	.969	1.009	2.383
Asymp. Sig. (2-tailed)		.001	.304	.260	.000
a. Test distribution is Normal.					

LT 9. Uji normalitas Kolmogorov-Smirnov faktor abiotik *L. rubiginosa* dewasa

One-Sample Kolmogorov-Smirnov Test^c					
		Suhu	pH	DO	Turbiditas
N		105	105	105	105
Normal Parameters ^a	Mean	28.200	8.6827	5.4652	1.3362
		0			
	Std. Deviation	2.1089	.12492	.52297	1.23979
Most Extreme Differences	Absolute	.162	.069	.058	.293
	Positive	.128	.056	.036	.293
	Negative	-.162	-.069	-.058	-.209
Kolmogorov-Smirnov Z		1.655	.712	.594	2.998
Asymp. Sig. (2-tailed)		.008	.692	.873	.000
a. Test distribution is Normal.					

LT 10. Uji homogenitas faktor abiotik *L. rubiginosa* juvenil

Test of Homogeneity of Variances ^a				
	Levene Statistic	df1	df2	Sig.
Turbiditas	7.308	4	100	.000
DO	.285	4	100	.887
pH	2.284	4	100	.066
Suhu	.164	4	100	.956

a. *Lymnaea rubiginosa* = juvenil

LT 11. Uji homogenitas faktor Abiotik *L. rubiginosa* dewasa

Test of Homogeneity of Variances ^a				
	Levene Statistic	df1	df2	Sig.
Turbiditas	20.853	4	100	.000
DO	1.351	4	100	.256
pH	1.356	4	100	.255
Suhu	.370	4	100	.830

a. *Lymnaea rubiginosa* = dewasa

LT12. Analisis ANOVA faktor abiotik *L. rubiginosa* juvenil

ANOVA						
		Sum of squares	df	Mean Square	F	Sig.
Turbiditas	Between Groups	5.989	4	1.497	1.927	.112
	Within Groups	77.719	100	.777		
	Total	83.709	104			
DO	Between Groups	.433	4	.108	.445	.776
	Within Groups	24.325	100	.243		
	Total	24.757	104			
pH	Between Groups	.104	4	.026	1.350	.257
	Within Groups	1.932	100	.019		
	Total	2.036	104			
Suhu	Between Groups	3.756	4	.939	.740	.567
	Within Groups	126.900	100	1.269		
	Total	130.656	104			

LT13 Analisis ANOVA Faktor abiotik *L. rubiginosa* dewasa

ANOVA						
		Sum of quares	df	Mean Square	F	Sig.
Turbiditas	Between Groups	43.340	4	10.835	9.299	.000
	Within Groups	116.517	100	1.165		
	Total	159.857	104			
DO	Between Groups	.162	4	.040	.143	.966
	Within Groups	28.282	100	.283		
	Total	28.443	104			
pH	Between Groups	.105	4	.026	1.734	.149
	Within Groups	1.518	100	.015		
	Total	1.623	104			
Suhu	Between Groups	3.167	4	.792	.172	.952
	Within Groups	459.373	100	4.594		
	Total	462.540	104			

LT14. Analisis probit (LC₅₀)

Chi-Square Tests				
		Chi-Square	df ^a	Sig.
PROBIT	Pearson Goodness-of-Fit Test	14.094	13	.367 ^b

Confidence limits				
Probability		95% Confidence Limits for perlakuan		
		Estimate	Lower Bound	Upper Bound
PROBIT	0.01	-1.122E5	.	.
	0.05	-6.273E5	.	.
	0.1	-9.019E5	.	.
	0.15	-1.087E6	.	.
	0.2	-1.234E6	.	.
	0.25	-1.361E6	.	.
	0.3	-1.474E6	.	.
	0.35	-1.579E6	.	.
	0.4	-1.671E6	.	.
	0.45	-1.776E6	.	.
	0.5	-1.871E6	.	.

Lampiran 5. Memorandum of Understanding

THIS MEMORANDUM OF UNDERSTANDING (here in after referred to as 'MOU') is made on the 28th day of July 2015

BETWEEN

Biology Department, Mathematic and Natural Science Faculty, UNIVERSITY OF BRAWIJAYA, Jalan Veteran 169 Malang 65145, East Java, Indonesia, (here in after referred to as "UB")

AND

KYUSHU MEDICAL CO., LTD. Of 13-4 Ohte-machi, Kokura-kita, Kitakyushu, Fukuoka 803-0814 JAPAN (here in after referred to as "KMED")

WHEREAS

- A. UB and KMED wish to co-operate in some research for KMED's product (MOSNON) until it get the product registration number from DEPTAN (Ministry of Agriculture Indonesia)
- B. UB and KMED wish to co-operate to promote, facilitate and implement co-operation in the following programmes and activities

NOW IT IS HEREBY AGREED AS FOLLOWS :

ARTICLE 1

AREAS OF COOPERATION

UB and KMED agree to the following goals and objectives in order to initiate the international partnership programme :

ARTICLE 2

ARRANGEMANT AND FUNDING

To implement the collaboratetive activities encisaged under the MOU, representatives of UB and KMED may meet periodically to negotiate and conclude project agreements and programes of cooperation, which meetings may include negotiations regarding the financing of such project agreements and programmes of cooperation. Prior to final agreement and the implementation of any projects or academic programmes arising from this MOU both UB and KMED must be obtain the agreement in writing of their duly authorized representatives.

The financial arrangements, rights to intellectual property and arrangements regarding publication of articles arising out of each project agreement and programme of cooperation will be in accordance with formal agreements to be entered into in respect of each prohect agreement and programme of cooperation. UB and KMED acknowledge that in the absence of any specific agreement to the contrary, all expenses of salary, travel, living and allled costs will be determined at the discetion of and be the responsibility of the visitor's home site.

ARTICLE 3

MANAGEMENT COMMITTEE

UB dan KMED will appoint representatives to manage and oversee the joint management activities. The representatives of the ub and KMED may meet and when necessary to review progress in the implementation of the agreed arrangements, define new areas for agreement and programmes of cooperation as well as discussing matters related to the MOU

ARTICLE 4

ADHERENCE TO LAWS

Staff and students of both university and company involved in any activities under this MOU shall adhere to the laws of the host country and the applicable rules, regulations and procedures of the Host University or company.

ARTICLE 5

AMENDMENTS

This MOU may only be amended by mutual agreement evidenced in writing by a duly authorised representative from each of Ub and KMED

ARTICLE 6

TERM OF AGREEMENT


This MOU shall commence on the date of its execution by the last to sign of UB and KMED and shall remain in force for a period of five years and may be renewed upon its expiry and with the agreement of the both parties. If the MOU remains dormant for three consecutive years it will be deemed to have lapsed.



Either UB or KMED may cancel the MOU by giving six months notice in writing to the other. The termination of this MOU shall not affect the implementation of the projects or programmes established under it prior to such termination

ARTICLE 7

LEGAL STATUS

Nothing in this MOU shall be construed as creating any legal relationship between the parties. This MOU is a statement of intent to foster genuine and mutually beneficial cooperation.


University of Brawijaya
Prof. Dr. Marjono, M.Phil.
Dean of Natural and Science Faculty
Date : July, 28th. 2015

Kyushu Medical Co., Ltd.

Minoru Maeda, Ph.D.
Director

Date : July, 28th. 2015