



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
INSTITUT PERTANIAN BOGOR

UNIT LABORATORIUM JASA PENGUJIAN, KALIBRASI DAN SERTIFIKASI

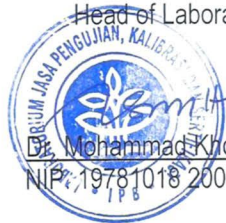
Gedung Pascasarjana Wing Kimia Lantai Dasar, Kampus IPB Baranangsiang, Jl. Pajajaran Bogor 16129

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Sertifikasi Akreditasi KAN No. LP-156-IDN ; LK-220-IDN ; LSP-030-IDN ; LSHACCP-009-IDN ; LSSMKP-009-IDN

Certificate No. : LT-10-19-0603
Lab. No. : BM/VI/19/1455
Customer : TEVO.INDONESIA
Address : Jl. Raya Sukomanunggal Jaya III Ruko
Chota No. 1 Surabaya
Sample Id : Tevo Fogging
Test for : Bactericidal Activity
Received Date : 27-06-2019
Issued Date : 12-08-2019

Head of Laboratory,



Dr. Mohammad Khotib, M.Si

NIP: 19781018 200701 1 002



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Certificate No. : LT-10-19-0603 Received Date : 27-06-2019
 Laboratory No. : BM/VI/19/1455 Finished Date : 06-08-2019
 Sample Matrix : Liquid
 Sample Id : Tevo Fogging

Microorganism Strains	Test Bacterial Suspension	Results				Method*
Escherichia coli (ATCC 10536) ⁻	N = 2.11 x 10 ⁸ No = 2.11 x 10 ⁷ Log No = 7.33	Na Log Na	> 3300 > 3.52	% R Log R	< 99.9844 % < 3.81	IK-11.5-LT-1.0
Staphylococcus aureus (ATCC 6538) ⁻	N = 1.69 x 10 ⁸ No = 1.69 x 10 ⁷ Log No = 7.23	Na Log Na	> 3300 > 3.52	% R Log R	< 99.9804 % < 3.71	
Pseudomonas aeruginosa (ATCC 15442) ⁻	N = 1.6 x 10 ⁸ No = 1.6 x 10 ⁷ Log No = 7.21	Na Log Na	> 3300 > 3.52	% R Log R	< 99.9793 % < 3.69	
Enterococcus hirae (ATCC 10541) ⁻	N = 1.9 x 10 ⁸ No = 1.9 x 10 ⁷ Log No = 7.28	Na Log Na	> 3300 > 3.52	% R Log R	< 99.9826 % < 3.76	
Salmonella choleraesuis (ATCC 10708) ^A	N = 1.72 x 10 ⁸ No = 1.72 x 10 ⁷ Log No = 7.24	Na Log Na	> 3300 > 3.52	% R Log R	< 99.9808 % < 3.72	

REMARKS

*) Outside the scope of accreditation
 ^Contact Time : 15 minutes -Contact Time : 5 minutes
 Test Temperature : Ambient Temperature (25°C) Incubation Temperature : 35°C
 Product concentration resulting in a 10⁵ or greater reduction in the number of viable cells are bactericidal (log R ≥ 5 or % R ≥ 99.9999 %)

N = number of cfu/ml of the test bacterial suspension
 No = $\frac{N}{10}$
 Log No = logarithmic No
 Na = number of cfu/ml in the test mix
 R = reduction in number of viable cells
 Log R = logarithmic reduction in number of viable cells (log No – log Na)
 Brief Method : Inoculated agar plate were exposed to sample (fogging) at Biosafety Cabinet
 Laboratory is not responsible for the sampling process

August 12, 2019
 Head of Laboratory

 Dr. Mohammad Khotib, M.Si
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