



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
INSTITUT PERTANIAN BOGOR
UNIT LABORATORIUM JASA PENGUJIAN, KALIBRASI DAN SERTIFIKASI

Sertifikat Akreditasi KAN No. LP-156-IDN ; LK-220-IDN ; LSPR-030-IDN ; LSHACCP-009-IDN ; LSSMKP-009-IDN
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Certificate No. : LT-10-21-0057
Lab. No. : BM/I/21/0156
Customer : PT PALAR PERSADA SEJAHTERA
Address : Jl. Raya Sukomanunggal Jaya 3.
Ruko Chofa Shop House 1-2
Sukomanunggal, Surabaya Brat
Jawa Timur 60188
Sample Matrix : Disinfektan
Test for : Bactericidal Activity of Airborne
Disinfection of Surface
Received Date : 20-01-2021
Issued Date : 08-03-2021

Head of Laboratory,

Dr. Mohammad Khotib, M.Si
NIP. 19781018 200701 1 002



FR-20.2-LT-1.0

LABORATORY TEST REPORT

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Certificate No. : LT-10-21-0057

Laboratory No. : BM/I/21/0156

Sample Matrix : Disinfektan

Sample Id : Berry C

Received Date : 20-01-2021

Finished Date : 04-03-2021

Microorganism Strains	Test Bacterial Colony on Carrier	Results				Method*
Escherichia coli (ATCC 10536)	T = 9×10^8 Log T = 8.95	Na Log Na	4.45×10^5 5.65	% R Log R	99.9506 % 3.30	AFNOR NF T72-281 : 2014
Staphylococcus aureus (ATCC 6538)	T = 7.55×10^8 Log T = 8.88	Na Log Na	3.2×10^5 5.51	% R Log R	99.9576 % 3.37	
Pseudomonas aeruginosa (ATCC 15442)	T = 6.64×10^8 Log T = 8.82	Na Log Na	3.7×10^5 5.57	% R Log R	99.9442 % 3.25	
Enterococcus hirae (ATCC 10541)	T = 1.06×10^9 Log T = 9.03	Na Log Na	6.5×10^5 5.81	% R Log R	99.9389 % 3.22	

REMARKS:

Condition Fogging Machine see Appendix

*) Outside the scope of accreditation

Neutralizer : Peptone from meat 10 g/L, Meat extract 5 g/L, NaCl 5 g/L, Soy lecithin 1 g/L and Polysorbate 80 20 g/L

Fogging Time : 15 minutes Contact Time : 1 hours Room Temperature : 28°C RH : 40-80%

Volume of The Indoor Test Room : 45 m³ Distance Disinfection Instrument-Carrier : 3 mProduct concentration/Instrument resulting in a 10⁵ or greater reduction in the number of viable cells are bactericidal (log R ≥ 5 or % R ≥ 99.999 %)

T = number of bacterial colony on carrier

Log T = logarithmic T

Na = number of bacterial colony on test carrier

Log Na = logarithmic Na

R = reduction in number of viable cells

Log R = logarithmic reduction in number of viable cells (log T – log Na)

Laboratory is not responsible for the sampling process

March 8, 2021

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Certificate No. : LT-10-21-0057

Laboratory No. : BM/I/21/0156

Sample Matrix : Disinfektan

Received Date : 20-01-2021

Finished Date : 04-03-2021

VALIDATION AND CONTROLS

Microorganism Strains	Test Bacterial Suspension (N)	Test Bacterial Colony on Carrier	Validation and Controls			
			Validation Suspension	A	B	C
Escherichia coli (ATCC 10536)	1.26×10^9	$T = 9 \times 10^8$ $\log T = 8.95$	$N_v = 70$	81.5	87	78
Staphylococcus aureus (ATCC 6538)	9.82×10^8	$T = 7.55 \times 10^8$ $\log T = 8.88$	$N_v = 100$	57	53	57
Pseudomonas aeruginosa (ATCC 15442)	9.09×10^8	$T = 6.64 \times 10^8$ $\log T = 8.82$	$N_v = 60$	57.5	61	50.5
Enterococcus hirae (ATCC 10541)	1.08×10^9	$T = 1.06 \times 10^9$ $\log T = 9.03$	$N_v = 80$	69	59.5	59
A = Inhibitory effect on agar B = Inhibitory effect on the carrier into agar C = carrier-vectored inhibitory effect T = number of bacterial colony on carrier Nv = number of cfu/ml of validation suspension						

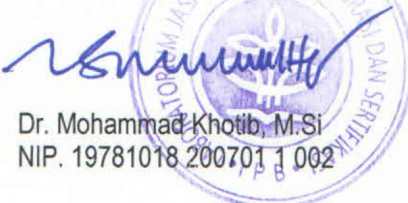
The Method is validated if :

- N is between 5×10^7 cfu/ml and 2×10^9 cfu/ml
- T is greater than 1×10^6 cfu
- A, B and C are greater than or equal to $0.5N_v$

In the described conditions, the neutralization method is validated for the tested bacterial strains when a concentration of 80% or the highest concentration of the products is used.

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APPENDIX FOGGING MACHINE



Dimension	:	11 x 12 x 22.5 cm
Power	:	400 watt
Smoke Fluid Volume	:	1.5 liter
Remote Control	:	Wired Remote Control