

Guangdong Detection Center of Microbiology

Analyses and Test Result

Rep.No: 2020FM03476R02

Sample Name: YEARUP/ Disinfectant Tablet

Received Date:29-02-2020

Test Items : Field Test of Disinfection

Completion Date: 16-03-2020

Effectiveness on Disinfect Atmosphere

1.Equipments :

1-Test Sample: :YEARUP/ Disinfectant Tablet

2-Laboratory :20m³

3-Sampler : Biochemical Incubator(Model :QFM-B-S001),JWL-6 Sieves Impactor L6 Microbiological Sampler (Model :QFM-B-S006).

4-Concentration and Ingredients of Neutralizer : 3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1% Solution of Cysteine.

5-Culture Medium Name And Lot No.: 3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1% Solution of Cysteine of Neutralizer of Nutrient Agar Culture Medium .(Lot No.: 20200302)

2.Method :

1- Test Conducted According to Heath Ministry <Disinfection Technical Standard >,< 2002 Edition>-2.1.3

2-Test Environment:Temperature : 24.5° , Humidity :59%.

3-Method Introduction : Weigh3.738g of Sample As Required , Bath it Completely in 1L of Water With 400mg/L of Fluid ,Take 400ml of Test Solution Then put it into The Atomizer Which Supported by The Client. When The Atomization Reach Cabin Air Test ,After30 Min Place Neutralizer of Nutrient Agar Culture Medium Pad (3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1% Solution of Cysteine) in Level Six Sampler . Take Sample of Space Air in The Same Location as The Same Sample . When Taking Samples Put JWL-6 Sieves Impactor L6 Microbiological Sampler in Aroom Center Point Wich is 1m High To set Up Taking Samples Point With Flow 25.3L/min To Take The Samples , Taking Sample Takes About 5min,Repeated 3Times in raw.

4-Na =36.0C° For48h

3.Result:

Effective Time	Test Bacteria Type	No.	Colonies Total No. (cfu/m ³)	Death Rate (%)
0(CK)	Natural Air Bacteria	1	1.4×10 ³	/
		2	1.5 ×10 ³	/
		3	1.4 ×10 ³	/
30 min	Natural Air Bacteria	1	2	98.50
		2	28	98.13
		3	28	98.00

4.Conclusion :

Atomize 400ml Test Solution (Concentration of 400mg/L) To 20m³ Test Cabin in 30min , Test Repeated 3Times , Test Result of Natural Air Bacteria Death rate >90% , , According to Regulations of Disinfection Technical Standard , < 2002 Edition > 2.1.3.5 , So Its Qualified As Disinfectant

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Effectiveness on Disinfect Atmosphere

1.Equipments :

1-Test Sample : YEARUP/ Disinfectant Tablet

2- Test Strains :Staphylococcus Albus Supplied by CGMCC ,Bacteria Belongs To fourth Generation , Bacterial Suspension Made of Ordinary Broth .

3-Concentration and Ingredients of Neutralizer : 3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1% Solution of Cysteine.

4- Culture Medium Name And Lot No.: 3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1% Solution of Cysteine of Neutralizer of Nutrient Agar Culture Medium .(Lot No.: 20200302)

5- Laboratory :20m³

6- Sampler : Biochemical Incubator(Model :QFM-B-S001),JWL-6 Sieves Impactor L6 Microbiological Sampler (Model :QFM-B-S006).

2.Method:

1- Test Conducted According to Health Ministry <Disinfection Technical Standard >,< 2002 Edition>-2.1.3

2-Test Environment:Temperature : 24.5° , Humidity :59%.

3-Method Introduction : Weigh3.738g of Sample As Required , Bath it Completely in 1L of Water With 400mg/L of Fluid ,Take 400ml of Test Solution Then put it into The Atomizer Which Supported by The Client. When The Atomization Reach Cabin Air Test, After30 Min Place Neutralizer of Nutrient Agar Culture Medium Pad (3% Tween -80 ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1%

Solution of Cysteine) in Level Six Sampler . Take Sample of Space Air in The Same Location as The Same Sample . When Taking Samples Put JWL-6 Sieves Impactor L6 Microbiological Sampler in A room Center Point Which is 1m High To set Up Taking Samples Point With Flow 25.3L/min To Take The Samples , Taking Sample Takes About 5min,Repeated 3Times in raw.

4-Na =36C° For48h

3. Result:

Test Microbe	Effect Time	Set	Total Air Bacteria (cfu/m ³)	Death Rate (%)	Total Air Bacteria (cfu/m ³)	Death Rate (%)
0 (CK)		1	6.1 ×10 ⁴	/	6.1 ×10 ⁴	/
		2	6.0 ×10 ⁴	/	6.2 ×10 ⁴	/
		3	6.3 ×10 ⁴	/	6.4 ×10 ⁴	/
Staphylococcus Albus	30 Min	1	4.6 ×10 ⁴	24.59	<7	>99.98
		2	4.6 ×10 ⁴	23.33	<7	>99.9
		3	5.0 ×10 ⁴	20.63	<7	>99.99

4. Conclusion :

Atomize 400Ml Test Solution (Concentration of 400mg/L)To 20m³ Test Cabin in 30min , Test Repeated 3Times ,Test Result of Staphylococcus Albus Death rate >99.90% , According to Regulations of Disinfection Technical Standard ,< 2002 Edition> -2.1.3.4 ,So Its Qualified As Disinfectant .